

CONTRACT	DESIGNATION
IR-33742	1006075

KIN DES. NUMBERS	
Designation No.	Description
1172100	I-69 NB OVER UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172101	I-69 SB OVER UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172102	I-69 OVER TRIBUTARY OF UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172104	I-69 NB OVER BOLIN LANE
1172105	I-69 SB OVER BOLIN LANE
1172112	S.R. 37 RAMP "SEL-3" OVER I-69
1172113	S.R. 37 RAMP "NWR-3" OVER I-69
1172114	SIGNING AND LIGHTING PLANS

ADJACENT PROJECTS	
Designation No.	Description
0500450	I-69 - HARMONY ROAD TO UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK (STA. 1255+00 TO 1462+50 LINE "A")

# INDIANA DEPARTMENT OF TRANSPORTATION

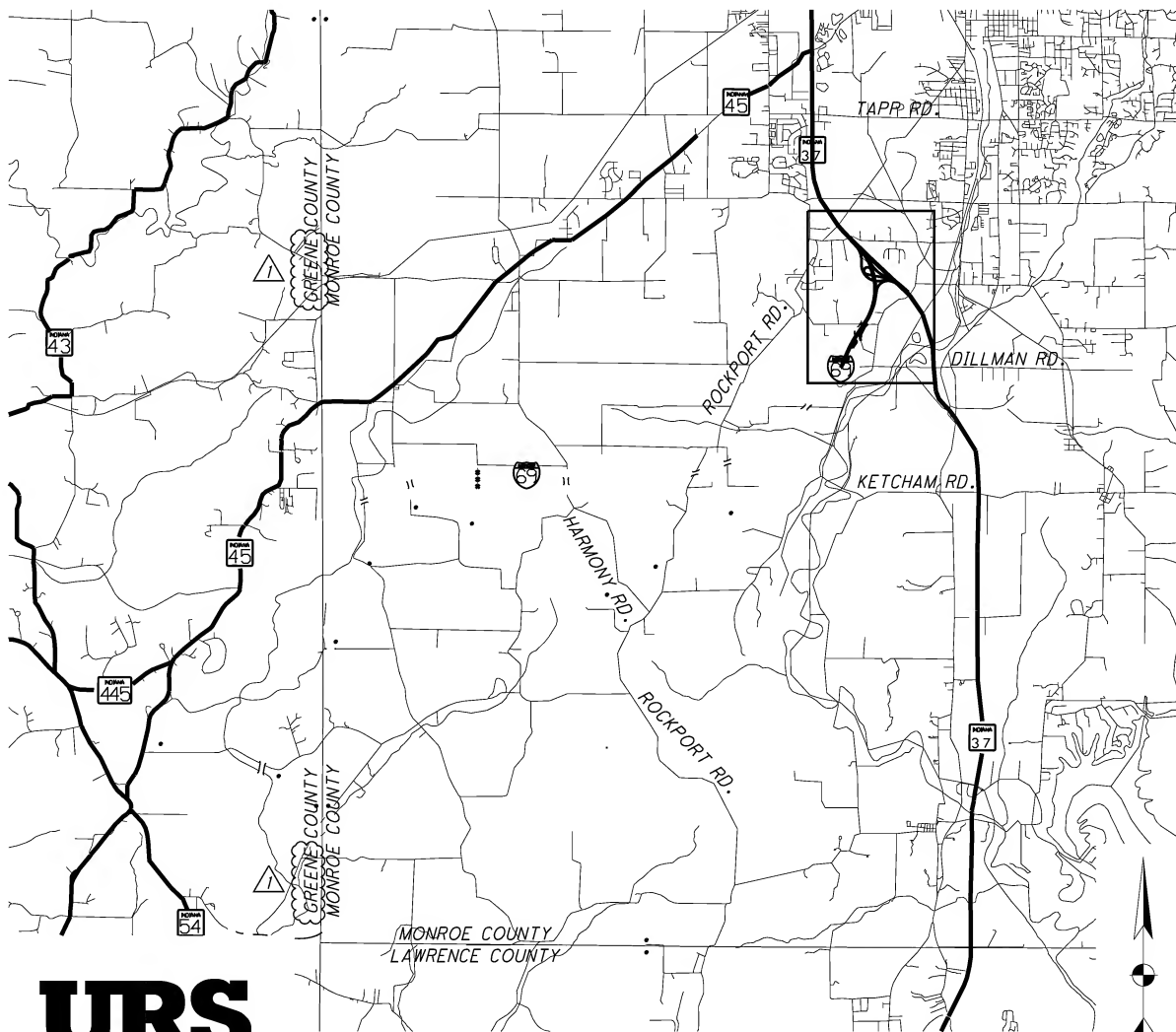
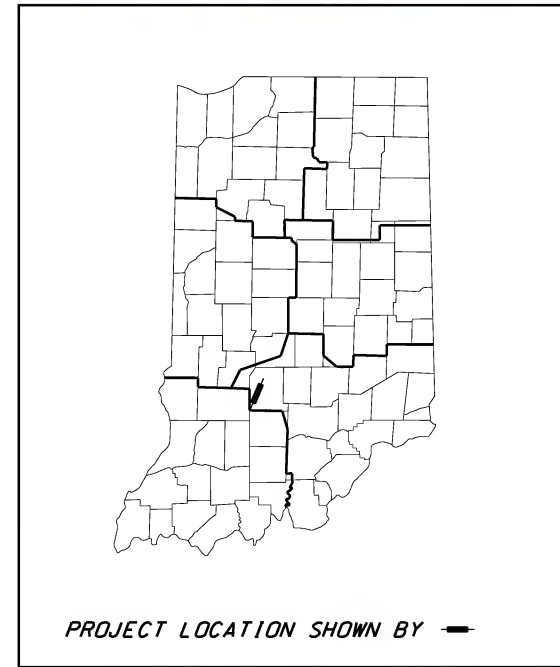


## ROAD PLANS

PROJECT NO. 1006075 PE, RW, CONST.  
Route: I-69 From RP 112+88 To RP 114+63

This Project features New Freeway Construction on I-69 from Unnamed Tributary (UNT) of Clear Creek to S.R. 37. The design includes a new full service interchange with four ramps at I-69 / SR 37. This project is located in Sections 19 and 30, Township 8 North, Range 1 West, Perry Township, Monroe County, Indiana.

Note:  
For Traffic & Design Data  
See Index Sheet on Page IX-01



Eq.  
Sta. 1554+30.00 "PR-A" (BK) =  
Sta. 216+18.47 "SR 37" (AH)

END PROJECT 1006075  
STA. 1553+25.00 "PR-A"

New Bridge Construction  
S.R. 37 Interchange (Line "SEL-3")  
over I-69 N.B./S.B. (Line "PR-A")  
Str. No. I-69-53-09717, Des. No. 1172112  
New Bridge Construction  
S.R. 37 Interchange (Line "NWR-3")  
over I-69 N.B./S.B. (Line "PR-A")  
Str. No. I-69-53-09718, Des. No. 1172113

New Bridge Construction  
I-69 over Bolin Lane  
N.B. Str. No. 169-53-9710, Des. No. 1172104  
S.B. Str. No. 169-53-9711, Des. No. 1172105

Begin Construction  
Sta. 18+00.00 "Bolin Lane"

New Bridge Construction  
I-69 over Tributary of Unnamed Tributary  
(UNT) of Clear Creek  
Str. No. 169-53-9709, Des. No. 1172102

New Bridge Construction  
I-69 over Unnamed Tributary (UNT) of Clear Creek  
N.B. Str. No. 169-53-9707, Des. No. 1172100  
S.B. Str. No. 169-53-9708, Des. No. 1172101

BEGIN PROJECT 1006075  
END PROJECT 0500450  
STA. 1462+50.00 "A"

Begin Construction  
Sta. 501+00.00 "NER-3"  
Sta. 1597+85.14 "NWR-3"

Roadway Length (I-69): 1.629 mi  
Total Length (I-69): 1.719 mi  
Max. Grade : 3.240%  
Begin Project Latitude: 39° 05' 34" N  
Begin Project Longitude: 86° 34' 01" W  
End Project Latitude: 39° 06' 55" N  
End Project Longitude: 86° 33' 53" W  
Hydrologic Unit Number: 05120208090020

End Construction  
Sta. 22+00.00 "Bolin Lane"  
End Construction  
Sta. 13+49.59 "PR-Glenview Drive"

Begin Construction  
Sta. 2+00.00 "Glenview Drive"

Scale: NTS  
Location Map  
Monroe County

URS

One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
317-532-5400

CDM  
Smith

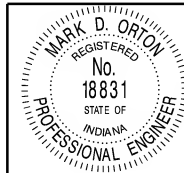
429 North Pennsylvania Street, Suite 409  
Indianapolis, IN 46204  
Tel: (317) 829-9600

FEDERAL HIGHWAY ADMINISTRATION  
U.S. DEPT. OF TRANSPORTATION  
APPROVED: \_\_\_\_\_  
DATE \_\_\_\_\_

DIVISION ADMINISTRATOR



PLANS  
PREPARED BY: URS Corporation 317-532-5400  
PHONE NUMBER  
CERTIFIED BY: Alan J. Delavina 9/6/2012  
DATE  
APPROVED  
FOR LETTING: \_\_\_\_\_  
DATE  
CHIEF, DIVISION OF DESIGN




PLANS  
PREPARED BY: CDM Smith 317-829-9600  
PHONE NUMBER  
CERTIFIED BY: Mark D. Orton 9/6/2012  
DATE

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2012  
TO BE USED WITH THESE PLANS

BRIDGE FILE	
N/A	
DESIGNATION	
1006075	
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TS-01
CONTRACT	PROJECT
IR-33742	1006075

Abbreviations	
R/W	Right-of-Way
L.A. R/W	Limited Access Right-of-Way
A.C.L.	Access Control Line
C.L.T.F.	Chain Link Type Fence
F.F.T.F.	Farm Field Type Fence
APP. P.L.	Apparent Property Line
APP. EXIST. R/W	Apparent Existing Right-of-Way
B	Beginning L.A. R/W
E	Ending L.A. R/W
N.E.P.L.	No Evidence of Property Line
s.e. / e	Superelevation
P.G.	Profile Grade
N.B.	Northbound
S.B.	Southbound

Utilities		
Smithville Communications, Inc. 1600 W. Temperence St. Ellettsville, IN 47429 Mr. Perry Gater OSP Engineer pgater@smithville.net (812) 935-2383	Southern Monroe Water Corp. (Midwestern Engineers Inc.) Mr. Michael Mathias Sr. Project Engineer mmaathias@midwesterneng.com (812) 295-2800 802 W. Broadway St. Loogootee, IN 47553 Send copy to: Mr. Dennis Miller Superintendent (812) 322-4745 5790 S. Fairfax Rd. Bloomington, IN 47401	Vectren Energy Delivery Mr. Marty Frederick Public Improvement Project Coordinator mfrederick@vectren.com (812) 491-4765 1 North Main Street Evansville, IN 47702 Mr. Doug Anderson danderson@vectren.com (812) 330-4009 205 South Madison Bloomington, IN 47408
Duke Energy Mr. Tim Emmel timothy.emmel@duke-energy.com (812) 886-3276 1000 E. Main St. Plainfield, IN 46168 Send copy to: Mr. Tim Umbaugh tim.umbaugh@duke-energy.com (317) 753-8177 1619 W. Deffenbaugh St. Kokomo, IN 46902	Comcast Central Indiana 2450 South Henderson St. Bloomington, IN 47401 Mr. Scott Templeton scott_templeton@cable.comcast.com (812) 822-3262	

Revisions			
Rev. No.	Date	Sheet Number	Description
	09/25/12	Plan Sheets: 1 - 48, 51 - 87, 93 - 96, 98 - 135, 137 - 139-3, 141 - 145, 149 - 173 Cross Section Sheets: 1 - 142, 145 - 164	Miscellaneous revisions

Roadway	Traffic Data						Design Data					
	A.A.D.T. (2014)	A.A.D.T. (2034)	D.H.V. (2034)	Trucks			Design Speed	Design Criteria	Functional Classification	Rural / Urban	Terrain	Access Control
				% A.D.T.	% D.H.V.	M.P.H.						
I-69	Line "A" and "PR-A"	25,635	30,762	2,437		70	New Construction, Freeway		Rural Freeway	Rural	Rolling	Full Control
I-69	Line "PR-A"	47,938	57,525	4,313	16.30%	11.31%	70	New Construction, Freeway	Urban Freeway	Urban	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "NER-3"	12,234	14,681	1,359	10.67%	6.05%	45	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "NWR-3"	12,105	14,526	1,270	10.10%	6.31%	50/45	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "SER-3"	613	735	58	4.84%	3.64%	50/35	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "SEL-3"	409	491	50	4.46%	4.17%	45/30	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
Bolin Lane	Line "Bolin Lane"	<100	24	-	-	-	35	3R, Non-Freeway	Local	Rural	Rolling	None
Glenview Drive	Line "Glenview Drive", "PR-Glenview Drive", and "PR-2-Glenview Drive"	<100	50	-	-	-	30	3R, Non-Freeway	Local	Rural	Rolling	None

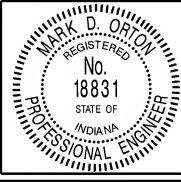
General Notes	
**	All Earth Shoulders, Median Areas, Cut and Fill Slopes shall be Plain or Mulch Seeded except where Sodding is specified.
**	All existing Storm Drainage Pipes, Inlets, and Manholes shall be removed unless otherwise noted.
**	All Limited Access Right-of-Way (L.A. R/W) is to be fenced with Farm Field Type Fence (F.F.T.F.) or Chain Link Type Fence (C.L.T.F.) and shall be placed in lieu of Right-of-Way Markers, unless otherwise noted.
**	All existing Right-of-Way Fence shall not be disturbed unless otherwise noted.


\*\* Required General Notes

Sheet	Description
1	Title Sheet
2	Index, General Notes, & Utility Information
3 - 15	Typical Sections
15-1	Typical Sections
16	Typical Sections
17 -20	Plat No. 1
21	Baseline Control Points and Benchmark Data
22 - 48	Maintenance of Traffic
49 - 64	Plan and Profiles - I-69
65 - 83	Plan and Profiles - Ramps
84 - 85	Plan and Profiles - Bolin Lane
86 - 87	Plan and Profiles - Glenview Drive
88 - 92	Superelevation Details
93 - 98	Construction Details
99 - 103	Miscellaneous Details
104	Drainage Ditch Berm Details
105 - 108	Interchange Geometric Layout
109 - 112	Interchange R/W Details
113 - 116	Interchange Construction Details
116-1	Interchange Construction Details
116-2	Interchange Construction Details
117 - 120	Interchange Drainage Details
121 - 126	Interchange Grading Details
127 - 131	Gore Details
131-1	Gore Detail
132 - 135	Str. No. 134 Detail Sheets
136	Soil Borings - Str. 134
137 - 138	Str. No. 938 Detail Sheets
139	Soil Borings - Str. 938
139-1	Str. No. 981 Detail Sheets
139-2	Str. No. 981 Detail Sheets
139-3	Signal Modification Detail
140 - 146	Pavement Marking Details
147 - 148	Pavement Marking Tables
149	Korst Detail Sheet
150	Korst Table
151	R/W, Monument & Fence Tables
152	Paved Side Ditch, Riprap and Sodding Table
153 - 154	Approach Table
155 - 169	Underdrain Tables
170	Guardrail Table
171 - 172	Structure Data Table
173	Pipe Material Table
	Cross Sections
1-69	Line "A" and Line "PR-A" - Part 1 of 3
75 - 142	Ramps - Line "NER-3", "NWR-3", "SEL-3", and "SER-3" - Part 2 of 3
143 - 144	DELETED SHEETS
145 - 156-1	Ramps - Line "NER-3", "NWR-3", "SEL-3", and "SER-3" - Part 2 of 3
157 - 164	Bolin Lane - Line "Bolin Lane" and Glenview Drive - Line "PR-2-Glenview Drive" - Part 3 of 3

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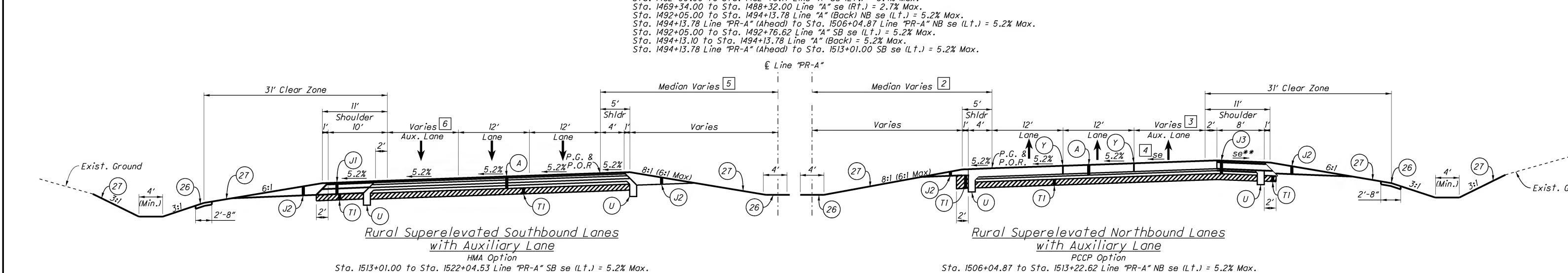
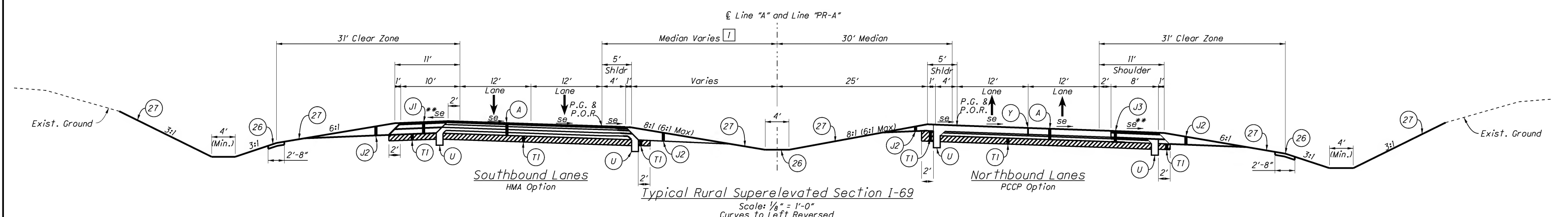
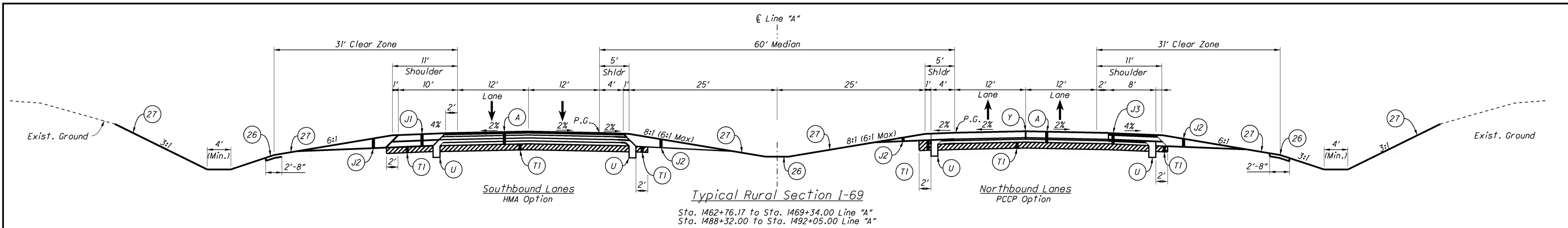
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DESIGNED: MDO	DRAWN: KCH	DATE
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
INDEX & GENERAL NOTES

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 1X-01
CONTRACT IR-33742	SHEETS 2 of 173
	PROJECT 1006075

 09/25/12 - Index revisions





- (A) OC/OA PCCP, 10.5" on Subbase For PCCP (D-1 Joints @ 15' O.C. w/1.5" Dia. Dowel Bars) or 165 lbs/Sys OC/OA-HMA, 5, 76, Surface 9.5 mm on 275 lbs/Sys OC/OA-HMA, 5, 76, Intermediate 19.0 mm on 330 lbs/Sys OC/OA-HMA, 5, 64, Base 19.0 mm on 250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm on 385 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm
- (J1) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on 250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm, on 385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (J3) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 660 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on Subbase For PCCP
- (TI) Subgrade Treatment Type IA or Type IC (Follow approved Geotechnical Report for locations of recommended/anticipated subgrade treatment in cut areas.)
- (U) 6" Underdrain Pipe
- (Y) Longitudinal Joint
- (26) Sodding
- (27) Seeding, R

**Paving Exceptions**  
Sta. 1464+18.05 to Sta. 1467+81.39 Line "A" NB  
Sta. 1464+50.61 to Sta. 1468+13.95 Line "A" SB  
Sta. 1493+34.75 to Sta. 1494+13.78 "A" (Back) NB =  
Sta. 1494+13.78 Line "PR-A" (Ahead) to Sta. 1494+71.24 NB  
Sta. 1492+76.62 to Sta. 1494+13.10 Line "A" SB

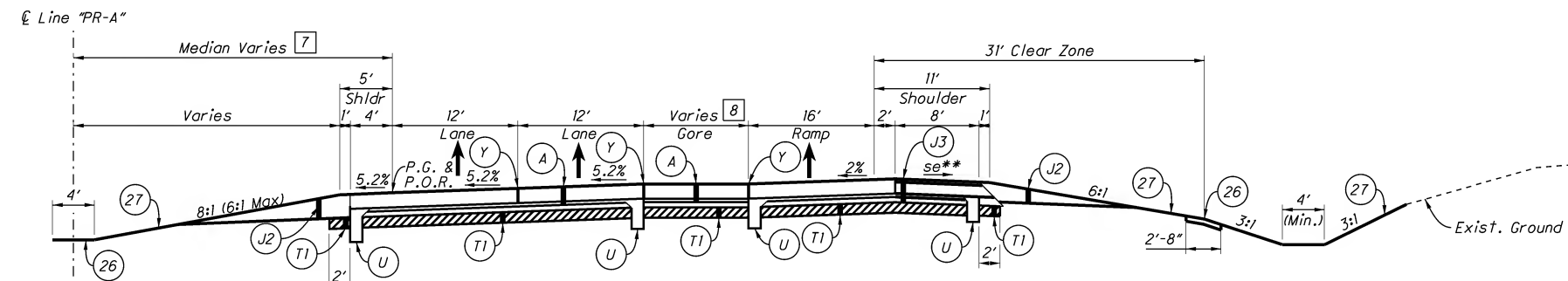
**\*\* For Paved Shoulder Width Greater Than 4':**  
The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope Of 2% Or If The Superelevation Rate Is 4% Or Less.  
The Shoulder Slope Shall Be 2% Down From The Traveled Way If The Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.  
The Shoulder Slope Shall Be 1% Up From The Traveled Way If The Superelevation Rate Is Greater Than 6%.

- 1 Sta. 1469+34.00 Line "A" to Sta. 1511+92.50 "PR-A" = 30'  
Sta. 1511+92.50 to Sta. 1513+01.00 "PR-A" varies from 30' to 28'-5"
- 2 Sta. 1506+04.87 to Sta. 1511+92.50 "PR-A" = 30'  
Sta. 1511+92.50 to Sta. 1513+22.62 "PR-A" varies from 30' to 28'-2"
- 3 Sta. 1506+04.87 to Sta. 1507+04.87 "PR-A" varies from 0' to 12'  
Sta. 1507+04.87 to Sta. 1509+99.31 "PR-A" = 12'  
Sta. 1509+99.31 to Sta. 1513+22.62 varies from 12' to 20'
- 4 See Superelevation Diagram for se of Auxiliary Lane
- 5 Sta. 1513+01.00 to Sta. 1521+96.28 "PR-A" varies from 28'-5" to 15'-8"
- 6 Sta. 1513+01.00 to Sta. 1516+66.11 "PR-A" varies from 0' to 12'  
Sta. 1516+66.11 to Sta. 1519+70.60 "PR-A" = 12'  
Sta. 1519+70.60 to Sta. 1522+04.53 "PR-A" varies from 12' to 18'

Note: All Shoulders On I-69 Shall Have Milled Shoulder Corrugations from Sta. 1462+50.00 "A" to 1494+13.78 "A" (Back) & Sta. 1494+13.78 "PR-A" (Ahead) to 1522+25.00 "PR-A", Per INDOT STD. DWG. E606-SHCG-01, E606-SHCG-02, and E606-SHCG-03

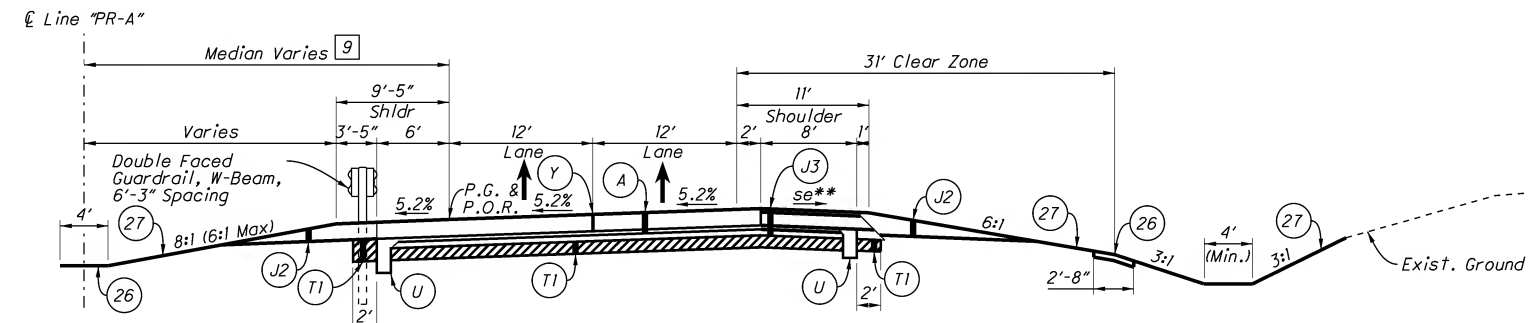
	<b>RECOMMENDED FOR APPROVAL</b>  DESIGN ENGINEER	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>		HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE N/A	
	DESIGNED: MDO CHECKED: HCF	DRAWN: KCH CHECKED: MDO	<b>TYPICAL SECTIONS</b> I-69 - LINE "A" & LINE "PR-A"		VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1006075
			SURVEY BOOK ELECTRONIC / AERIAL		PAGE 7Y-01	SHEETS 3 of 173
			CONTRACT IR-33742		PROJECT 1006075	

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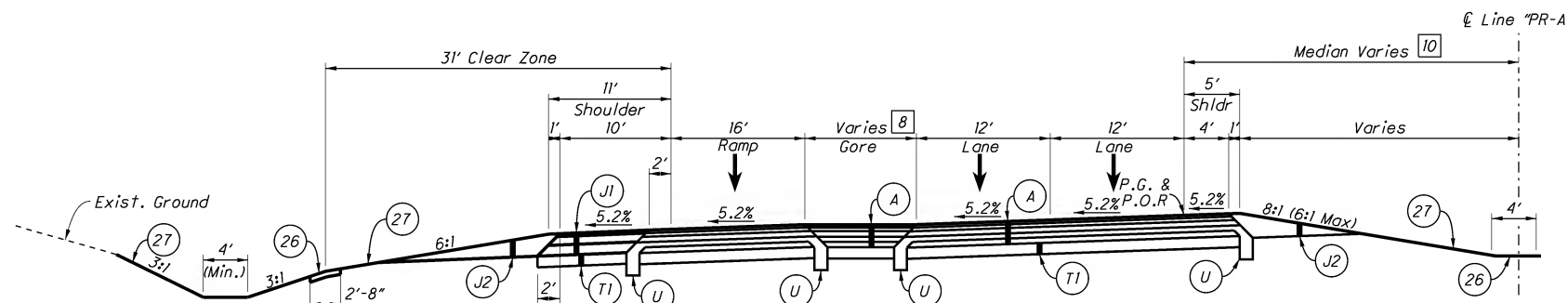
Rural Superelevated Northbound Lanes  
with Gore and Ramp Lane  
PCCP Option

Sta. 1513+22.62 to Sta. 1515+12.31 Line "PR-A" NB se (Lt.) = 5.2% Max.



Rural Superelevated Northbound Lanes  
PCCP Option

Sta. 1515+12.31 to Sta. 1522+25.00 Line "PR-A" NB se (Lt.) = 5.2% Max.



Rural Superelevated Southbound Lanes  
with Auxiliary Lane  
HMA Option

Sta. 1522+04.53 to Sta. 1522+25.00 Line "PR-A" SB se (Lt.) = 5.2% Max.

- (A) OC/OA PCCP, 10.5" on Subbase For PCCP (D-I Joints @ 15' O.C. w/1.5" Dia. Dowel Bars) or  
165 lbs/Sys OC/OA-HMA, 5, 76, Surface, 9.5 mm on  
275 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, 19.0 mm on  
330 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm on  
250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm on  
385 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm

- (J1) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on  
275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on  
330 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on  
250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate OG 19.0 mm, on  
385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm

- (J2) Compacted Aggregate, No. 53, Variable Depth

- (J3) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on  
330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on  
660 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on  
Subbase for PCCP

- (T1) Subgrade Treatment Type IA or Type IC  
(Follow approved Geotechnical Report for  
locations of recommended/anticipated  
subgrade treatment in cut areas.)

- (U) 6" Underdrain Pipe

- (Y) Longitudinal Joint

- (26) Sodding

- (27) Seeding, R

\*\* For Paved Shoulder Width Greater Than 4':  
The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope  
Of 2% Or If The Superelevation Rate Is 4% Or Less.  
The Shoulder Slope Shall Be 2% Down From The Traveled Way If The  
Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.  
The Shoulder Slope Shall Be 1% Up From The Traveled Way If The  
Superelevation Rate Is Greater Than 6%.

- 7 Sta. 1513+22.62 to Sta. 1515+12.31 "PR-A" varies from 28'-2" to 25'-5"  
8 See Gore Details for more information.  
9 Sta. 1515+12.31 to Sta. 1522+25.00 "PR-A" varies from 25'-5" to 15'-3"  
10 Sta. 1521+96.28 to Sta. 1522+25.00 "PR-A" varies from 15'-8" to 15'-3"

Note: All Shoulders On I-69 Shall Have  
Milled Shoulder Corrugations From  
Sta. 1462+50.00 "A" to 1522+25.00 "PR-A",  
Per INDOT STD. DWG. E606-SHCG-01,  
E606-SHCG-02, and E606-SHCG-03



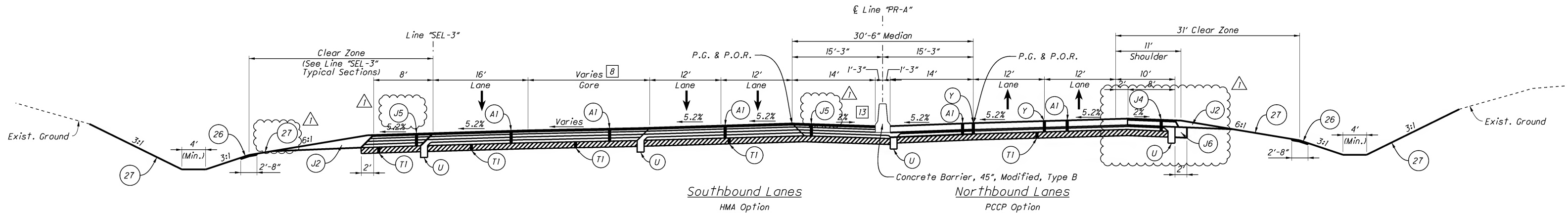
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FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

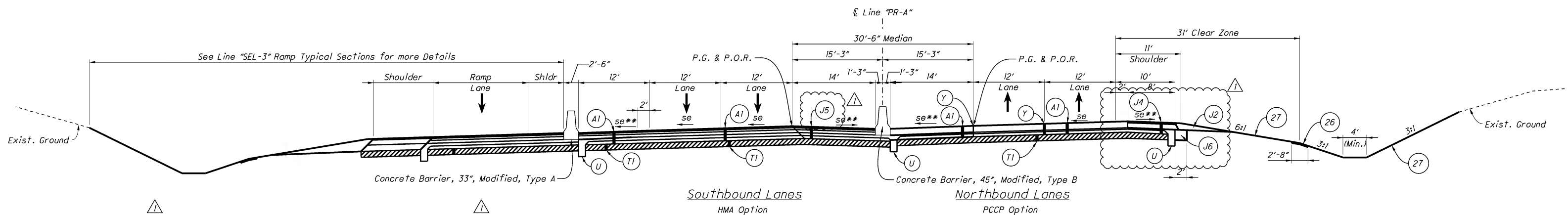
TYPICAL SECTIONS  
I-69 - LINE "PR-A"

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE N/A
VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-09
CONTRACT IR-33742	SHEETS 4 of 173
	PROJECT 1006075



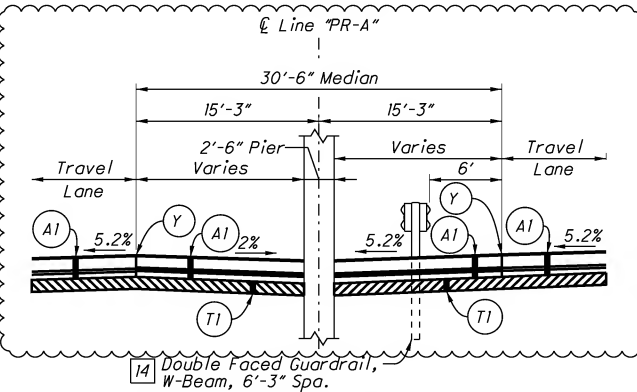
Typical Urban Superelevated 2-Lane Section I-69 with Collector-Distributor

Sta. 1522+25.00 to Sta. 1526+34.92 Line "PR-A" se (L.T.) = 5.2% max.



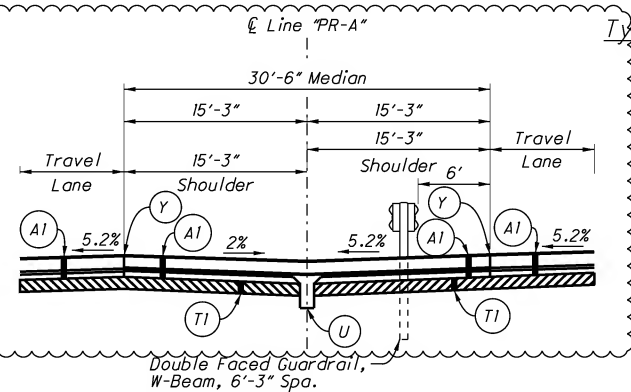
Typical Urban Superelevated 2-Lane Section I-69 with Collector-Distributor

Sta. 1526+34.92 to Sta. 1534+33.63 Line "PR-A" se (L.T.) = 5.2% max.



Urban Median Shoulder with Bridge Pier

Not to Scale  
PCCP Option  
Sta. 1522+44.84 to Sta. 1522+94.34 Line "PR-A"  
Sta. 1525+90.56 to Sta. 1526+26.56 Line "PR-A"



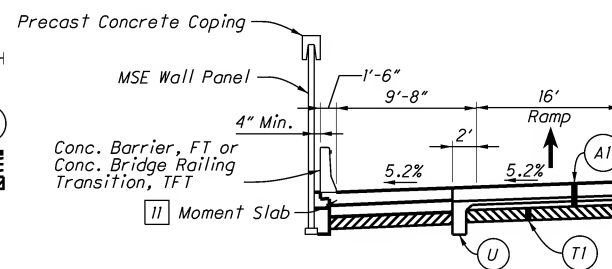
Urban Median Shoulder with Guardrail

Not to Scale  
PCCP Option  
Sta. 1522+25.00 to Sta. 1522+44.84 Line "PR-A"

Concrete Barrier  
(See Barrier Transition -  
Type A to Standard Detail  
on Page TY-03)

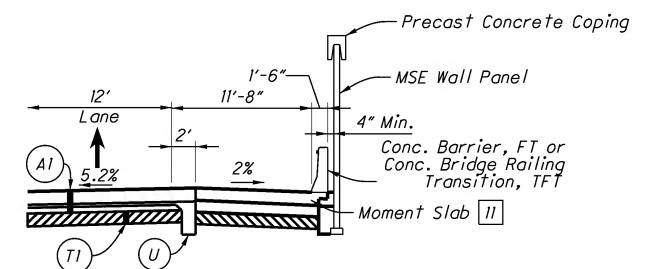
Outside Shoulder with Barrier Detail

Not to Scale  
HMA Option  
Sta. 1530+52.77 to Sta. 1534+33.63 Line "PR-A"



Outside Shoulder with MSE Wall  
Southbound Lanes

Not to Scale  
PCCP Option  
Sta. 541+90.92 to Sta. 542+49.05 Line "SEL-3"  
Sta. 545+33.77 to Sta. 545+98.08 Line "SEL-3"



Outside Shoulder with MSE Wall  
Northbound Lanes

Not to Scale  
PCCP Option  
Sta. 1522+22.07 to Sta. 1522+82.45 Line "PR-A"  
Sta. 1525+48.86 to Sta. 1526+07.47 Line "PR-A"

- (A1) OC/OA, 12" on Subbase For PCCP (ID-1 Joints @ 15" O.C. w/1.5" Dia. Dowel Bars) or 165 lbs/Sys OC/OA-HMA, 5, 76, Surface 9.5 mm on 275 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, 19.0 mm on 385 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm on 300 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm on 385 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (J4) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 880 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on Subbase For PCCP

- (J5) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on 300 lbs/Sys OC/OA-HMA, 5, 76, Intermediate OG 19.0 mm, on 385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on
- (J6) Compacted Aggregate, No. 53, 9"
- (T1) Subgrade Treatment Type 1A or Type 1C (Follow approved Geotechnical Report for locations of recommended/anticipated subgrade treatment in cut areas.)
- (U) 6" Underdrain Pipe
- (Y) Longitudinal Joint
- (26) Sodding
- (27) Seeding, R

\*\* For Paved Shoulder Width Greater Than 4':  
The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope Of 2% Or If The Superelevation Rate Is 4% Or Less.  
The Shoulder Slope Shall Be 2% Down From The Traveled Way If The Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.  
The Shoulder Slope Shall Be 1% Up From The Traveled Way If The Superelevation Rate Is Greater Than 6%.

- (8) See Gore Details for more information.
- (11) See Shoulder Adjacent to MSE Wall Details on Sheet 16
- (13) See Urban Median Shoulder Details for more information.
- (14) Double Faced Guardrail located only from Sta. 1522+44.84 to Sta. 1522+94.34 "PR-A"



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10 DATE

DESIGNED: MDO DRAWN: K&H

CHECKED: HCF CHECKED: MDO

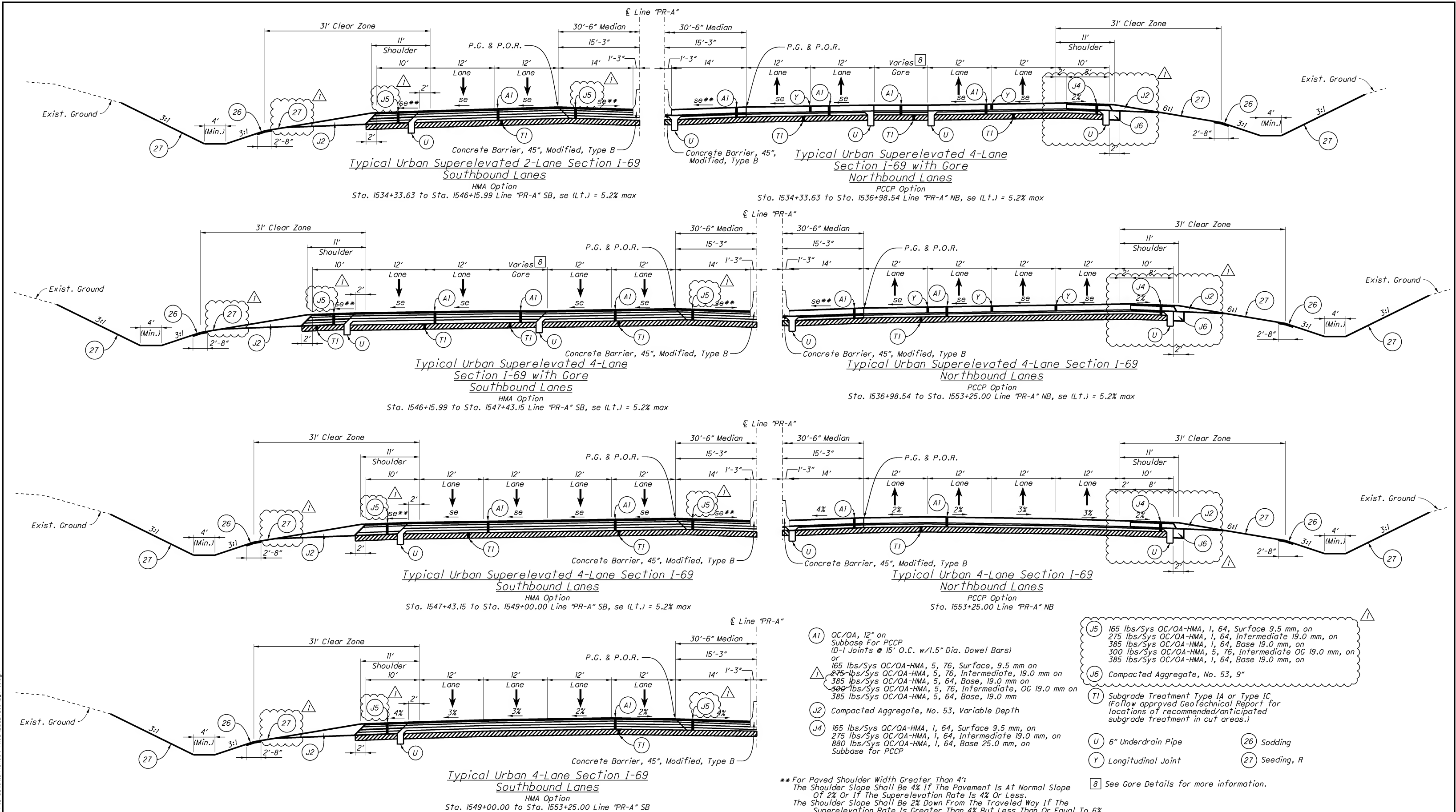
INDIANA  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
I-69 - LINE "PR-A"

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VERTICAL SCALE	AS NOTED	DESIGNATION	1006075
SURVEY BOOK	ELECTRONIC / AERIAL	PAGE	TY-02
CONTRACT	IR-33742	SHEETS	5 of 173
		PROJECT	1006075



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09/25/12 - Miscellaneous revisions

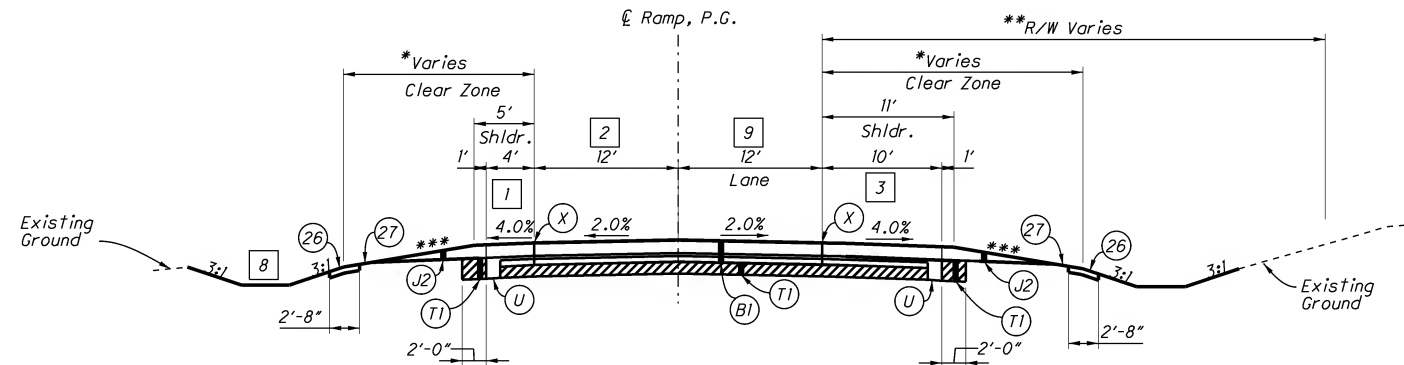


RECOMMENDED FOR APPROVAL  
DESIGNED: MDO  
CHECKED: HCF  
DRAWN: K&H  
CHECKED: MDO  
DATE: 9/6/10

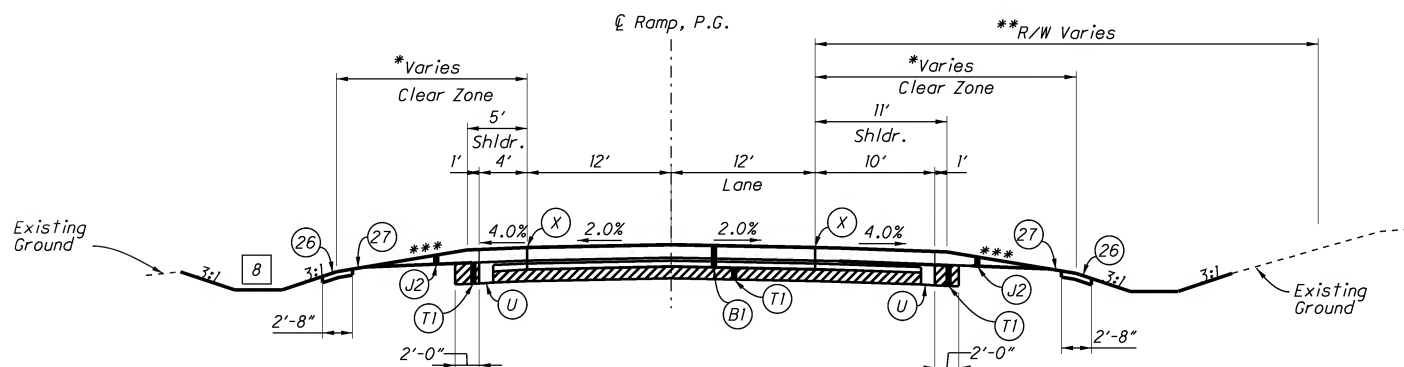
INDIANA  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
I-69 - LINE "PR-A"

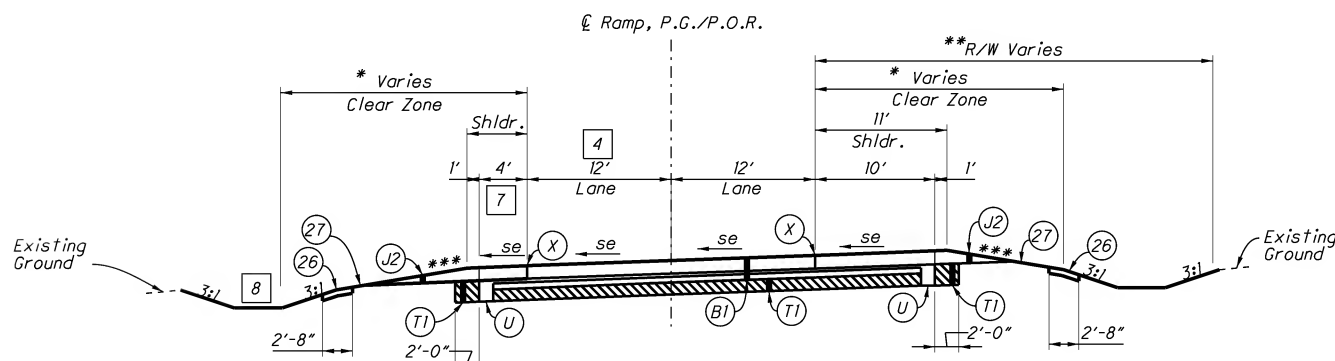
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AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TY-10
CONTRACT	PROJECT
IR-33742	1006075



Typical Section - Ramp "NER-3"  
Sta. 500+00.00 To Sta. 501+00.00 Line "NER-3"



Typical Section - Ramp "NER-3"  
Sta. 501+00.00 To Sta. 506+89.00 Line "NER-3"  
Sta. 515+28.81 To Sta. 515+56.00 Line "NER-3"



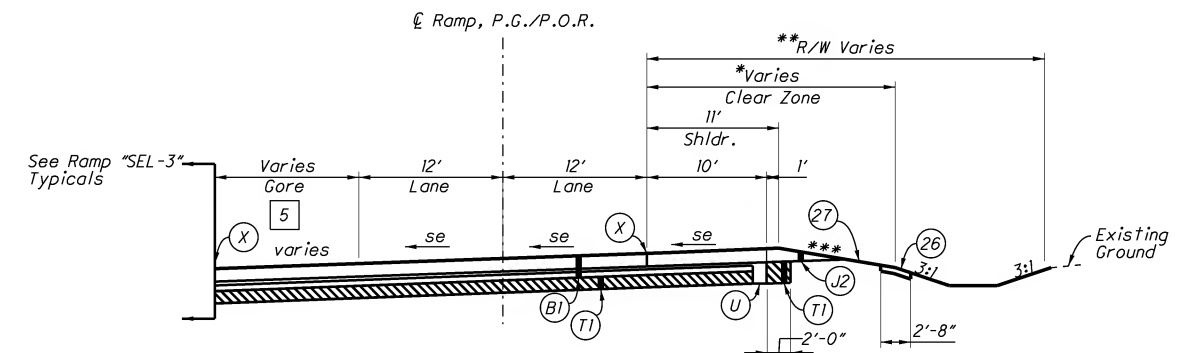
Typical Superelevated Section - Ramp "NER-3"  
(Reverse As Needed)

Sta. 506+89.00 To Sta. 513+90.65 Line "NER-3"  
Sta. 515+56.00 To Sta. 530+92.00 Line "NER-3"

\* See Mainline Typical Section.

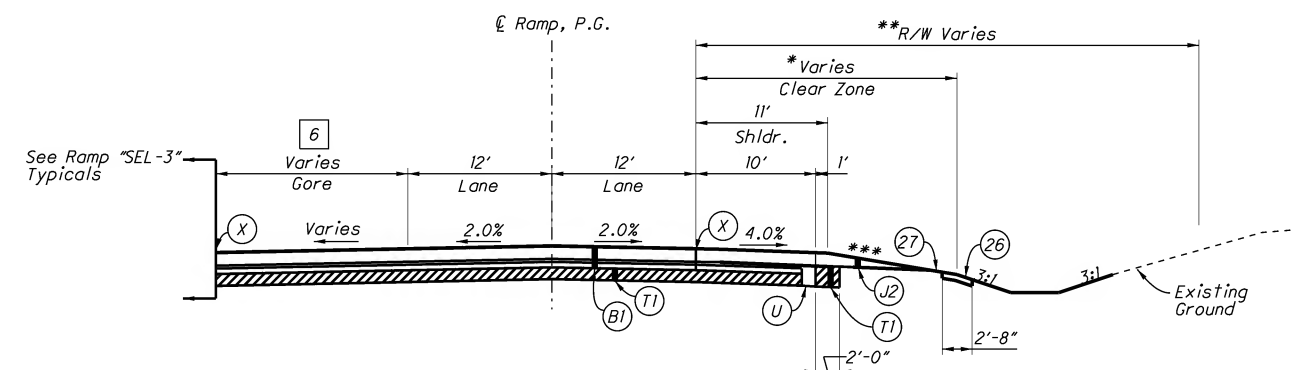
Typical Superelevated Section - Ramp "NER-3"

Sta. 530+92.00 to Sta. 533+08.07 Line "NER-3"



Typical Superelevated Section - Ramp "NER-3"

Sta. 513+91.00 to Sta. 514+86.00 Line "NER-3"



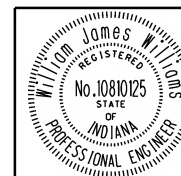
Typical Section - Ramp "NER-3"

Sta. 514+86.00 To Sta. 515+28.81 Line "NER-3"

- |   |  |   |   |   |   |
|---|--|---|---|---|---|
| 1 | Varies 7' To 4'<br>Sta. 500+00.00 To Sta. 501+00.00 "NER-3"    | 4 | Varies 12' To 32'<br>Sta. 507+90.18 To Sta. 513+90.65 "NER-3" | 7 | Guardrail with 6' Applies<br>Sta. 515+29.00 To Sta. 517+03.69 "NER-3"   |
| 2 | Varies 12.2' To 12'<br>Sta. 500+00.00 To 501+00.00 "NER-3"     | 5 | Varies 4' To 13'<br>Sta. 513+90.65 To Sta. 514+86.00 "NER-3"  | 8 | 6:1 Special V-Ditch Applies<br>Sta. 515+37.00 To Sta. 517+08.00 "NER-3" |
| 3 | Varies 9.5' To 10'<br>Sta. 500+00.00 To Sta. 501+00.00 "NER-3" | 6 | Varies 13' To 18'<br>Sta. 514+86.00 To Sta. 515+28.81 "NER-3" | 9 | Varies 12.2' To 12'<br>Sta. 500+00.00 To Sta. 501+00.00 "NER-3"         |

\* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)  
\*\* See Cross Sections For Specific Dimensions  
\*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

- |  |  |                                 |
|--|--|---------------------------------|
| (B1) OC/OA, 10.5" on Subbase For PCCP (D-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm | (J2) Compacted Aggregate, No. 53, Variable Depth<br>(T1) Subgrade Treatment, Type 1A<br>(U) 6" Underdrain Pipe<br>(X) Construction Joint | (26) Sodding<br>(27) Seeding, R |
|--|--|---------------------------------|



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

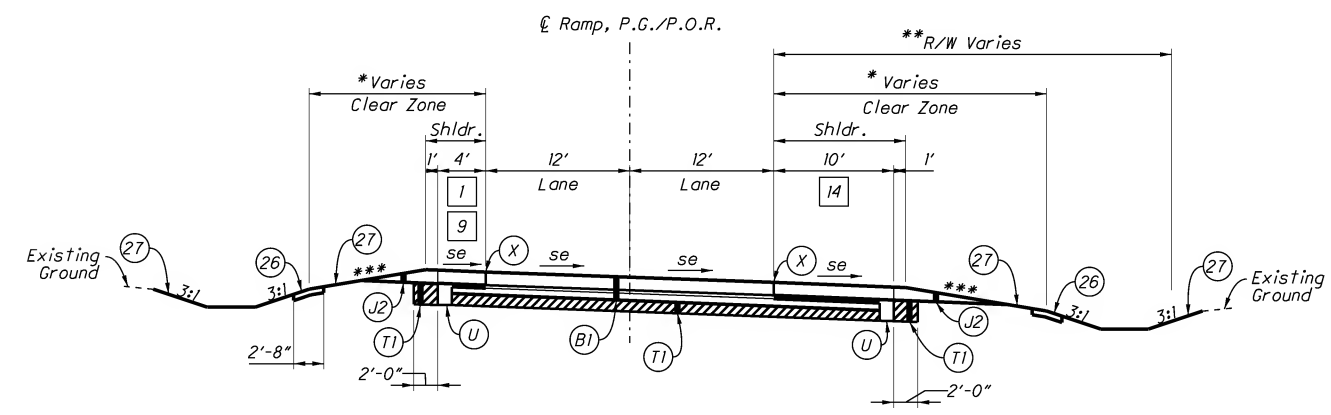
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMPS "NER-3"	

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-01
CONTRACT IR-33742	SHEETS 7 of 173 PROJECT 1006075

\* See Mainline Typical Section.

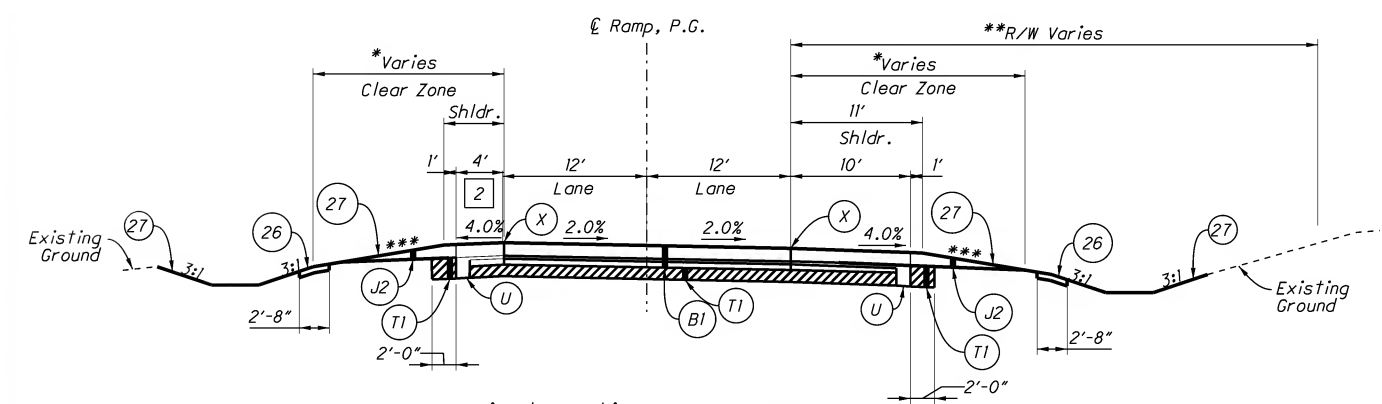
Typical Superelevated Section - Ramp "NWR-3"

Sta. 1548+30.51 to Sta. 1550+41.00 Line "NWR-3"



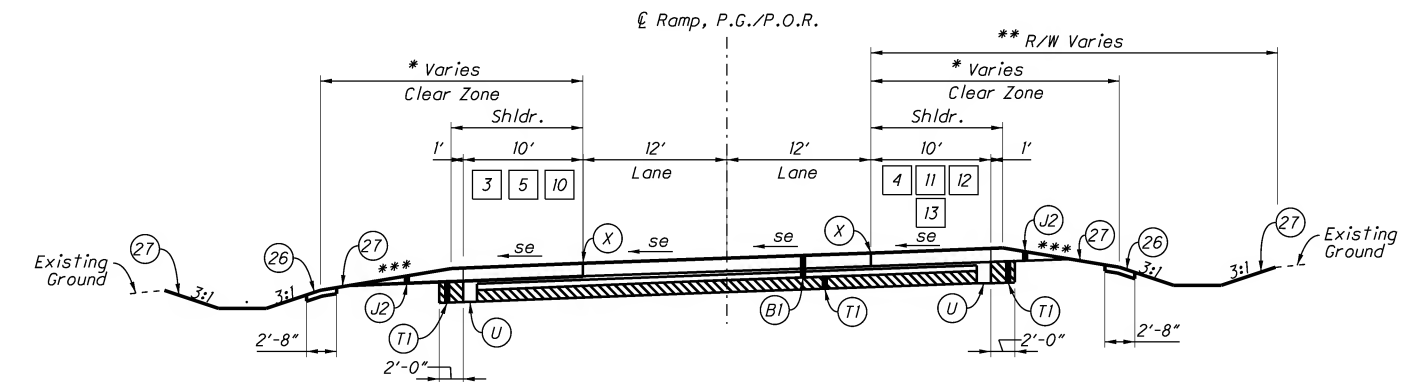
Typical Superelevated Section - Ramp "NWR-3"

Sta. 1550+41.00 to Sta. 1559+32.00 Line "NWR-3"  
Sta. 1579+88.74 to Sta. 1582+81.32 Line "NWR-3"



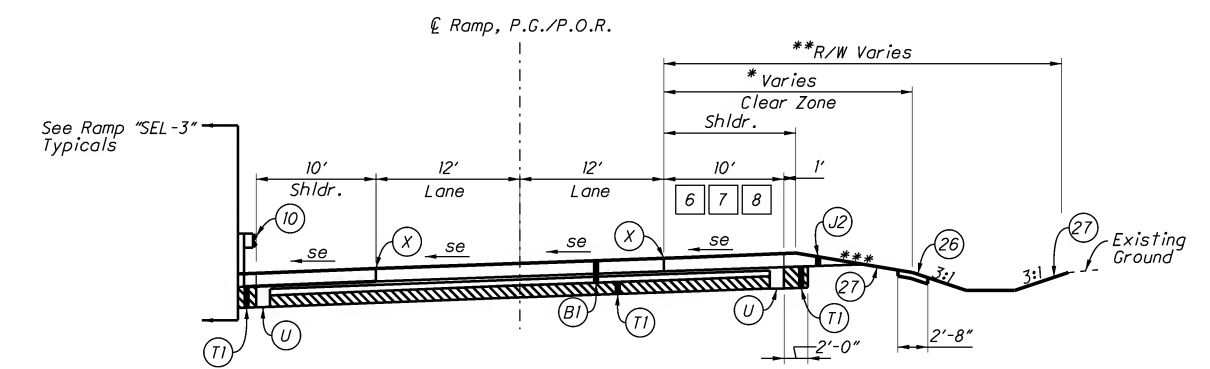
Typical Section - Ramp "NWR-3"

Sta. 1559+32.00 To Sta. 1560+00.00 Line "NWR-3"



Typical Superelevated Section - Ramp "NWR-3"

Sta. 1560+00.00 to Sta. 1562+82.90 Line "NWR-3"  
Sta. 1576+14.15 to Sta. 1579+88.74 Line "NWR-3"



Typical Superelevated Section with Guardrail - Ramp "NWR-3"

Sta. 1562+82.90 to Sta. 1564+19.83 Line "NWR-3"  
Sta. 1568+36.30 to Sta. 1574+05.83 Line "NWR-3"

Paving Exception

Sta. 1574+05.83 To Sta. 1576+14.15 "NWR-3"

- |   |   |   |  |    |  |    |  |
|---|---|---|--|----|--|----|--|
| 1 | Varies 4' To 6.2'<br>Sta. 1558+49.08 To Sta. 1559+32.00 "NWR-3"   | 5 | Varies 10' To 7.2'<br>Sta. 1579+14.89 To Sta. 1579+88.74 "NWR-3"                       | 9  | Varies 7.2' To 4'<br>Sta. 1579+88.74 To Sta. 1581+04.94 "NWR-3"                        | 13 | Guardrail with 12' Applies<br>Sta. 1576+52.61 To Sta. 1579+88.74 "NWR-3" |
| 2 | Varies 6.2' To 8'<br>Sta. 1559+32.00 To Sta. 1560+00.00 "NWR-3"   | 6 | Guardrail With 12' Shoulder Applies<br>Sta. 1572+81.16 To Sta. 1573+89.89 "NWR-3"      | 10 | Guardrail with 10' Applies<br>Sta. 1561+36.07 To Sta. 1562+82.90 "NWR-3"               | 14 | Guardrail with 12' Applies<br>Sta. 1579+88.74 To Sta. 1581+99.81 "NWR-3" |
| 3 | Varies 8' To 10'<br>Sta. 1560+00.00 To Sta. 1560+75.66 "NWR-3"    | 7 | Guardrail Applies<br>Varies 12' To 10.5'<br>Sta. 1573+89.89 To Sta. 1574+03.29 "NWR-3" | 11 | Guardrail with 10.5' Applies<br>Sta. 1576+14.15 To Sta. 1576+38.62 "NWR-3"             |    |  |
| 4 | Varies 10.5' To 10'<br>Sta. 1576+14.15 To Sta. 1576+52.61 "NWR-3" | 8 | Guardrail With 10.5' Applies<br>Sta. 1574+03.29 To Sta. 1574+05.83 "NWR-3"             | 12 | Guardrail Applies<br>Varies 10.5' to 12'<br>Sta. 1576+38.62 To Sta. 1576+52.61 "NWR-3" |    |  |

\* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)  
\*\* See Cross Sections For Specific Dimensions  
\*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B) OC/OA, 10.5" on Subbase For PCCP (D-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm	(C) Concrete, C, Railing	(X) Construction Joint
(J2) Compacted Aggregate, No. 53, Variable Depth	(10) W-Beam Guardrail	(26) Sodding
(T1) Subgrade Treatment, Type 1A	(27) Seeding, R	
(U) 6" Underdrain Pipe		



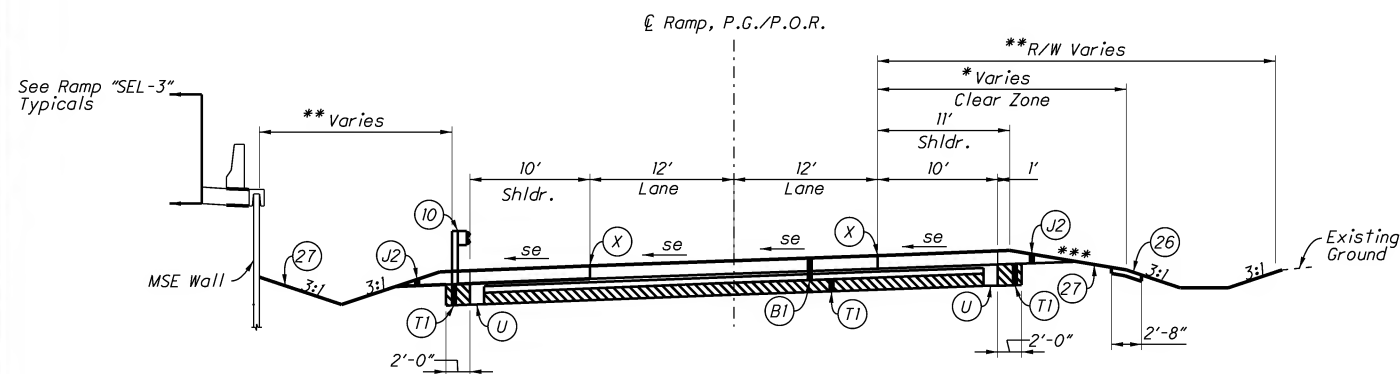
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMP "NWR-3"	

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-02
CONTRACT IR-33742	SHEETS 8 of 173
	PROJECT 1006075

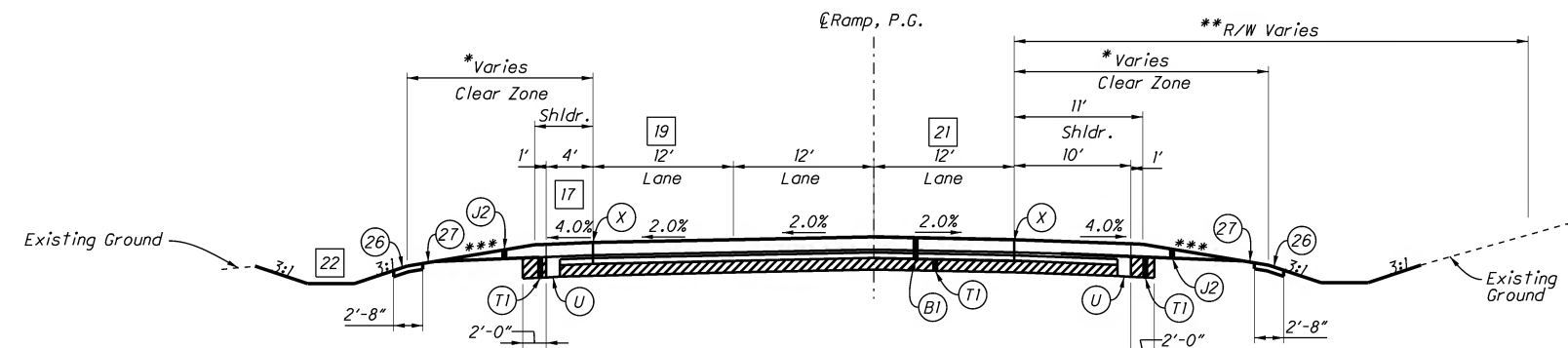
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PROJECT: NWR-3  
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Typical Superelevated Section with Wall - Ramp "NWR-3"

Sta. 1564+19.83 to Sta. 1568+36.30 Line "NWR-3"

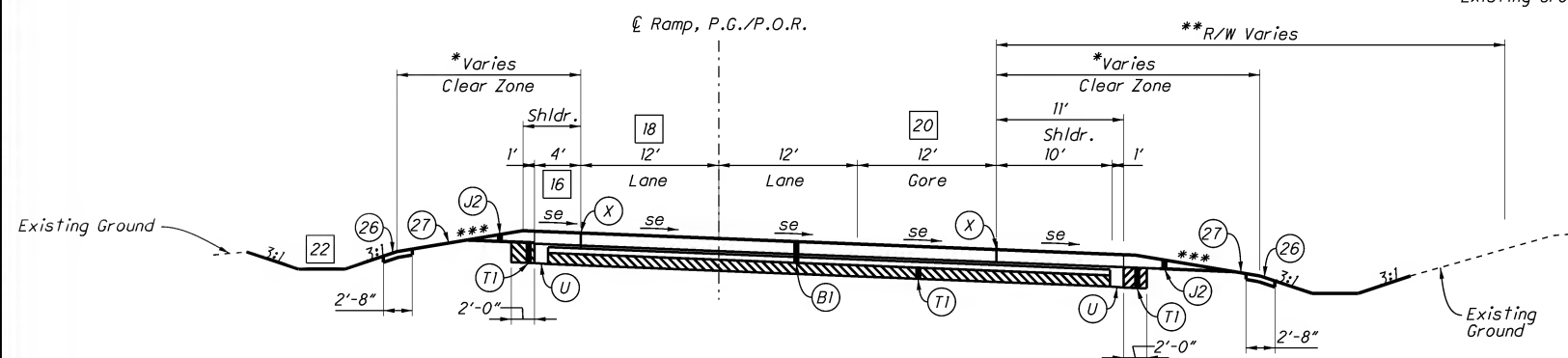


Typical Section - Ramp "NWR-3"

Sta. 1593+09.00 to Sta. 1597+85.14 Line "NWR-3"

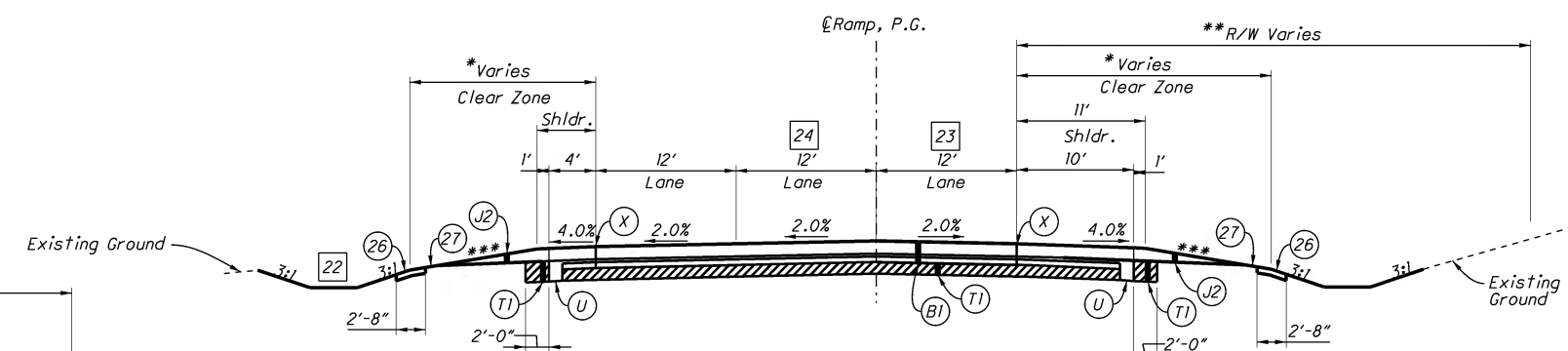
Paving Exception

Sta. 1574+05.83 To Sta. 1576+14.15 "NWR-3"



Typical Superelevated Section - Ramp "NWR-3"

Sta. 1582+81.00 to Sta. 1593+09.00 Line "NWR-3"



Typical Section - Ramp "NWR-3"

Sta. 1597+85.14 To Sta. 1599+69.39 Line "NWR-3"

\* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)

\*\* See Cross Sections For Specific Dimensions

\*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B1) OC/OA, 10.5" on Subbase For PCCP (10-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm

(J2) Compacted Aggregate, No. 53, Variable Depth

(T1) Subgrade Treatment, Type 1A

(M) 8.5" Concrete Moment Slab

(W) MSE Wall

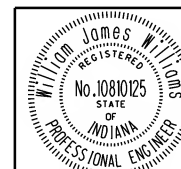
(U) 6" Underdrain Pipe

(X) Construction Joint

(10) W-Beam Guardrail

(26) Sodding

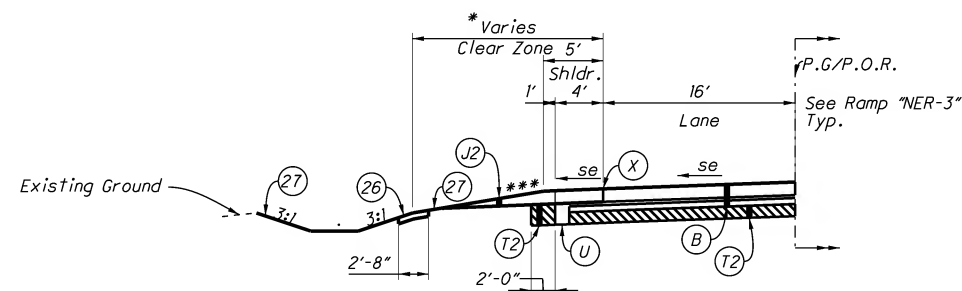
(27) Seeding, R



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

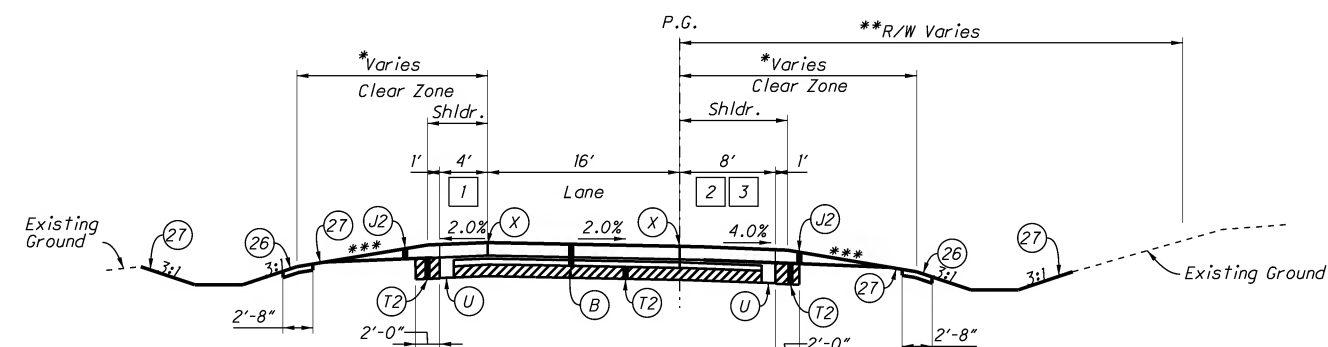
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMP "NWR-3"	

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	
VERTICAL SCALE	DESIGNATION
	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	9 of 173
CONTRACT	PROJECT
IR-33742	1006075



Typical Superelevated Section - Ramp "SEL-3"

Sta. 513+90.65 to Sta. 515+29.00 Line "SEL-3"

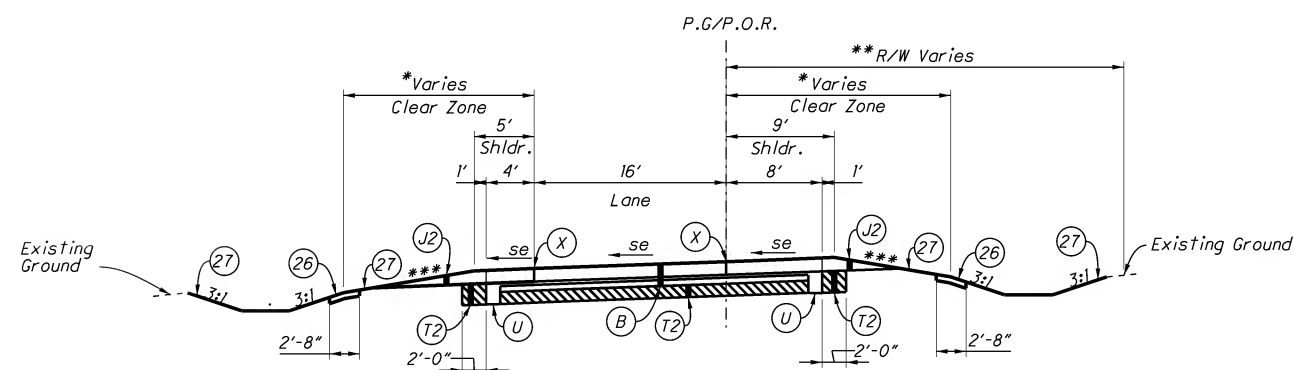


Typical Section - Ramp "SEL-3"

Sta. 517+72.00 to Sta. 524+18.31 Line "SEL-3"

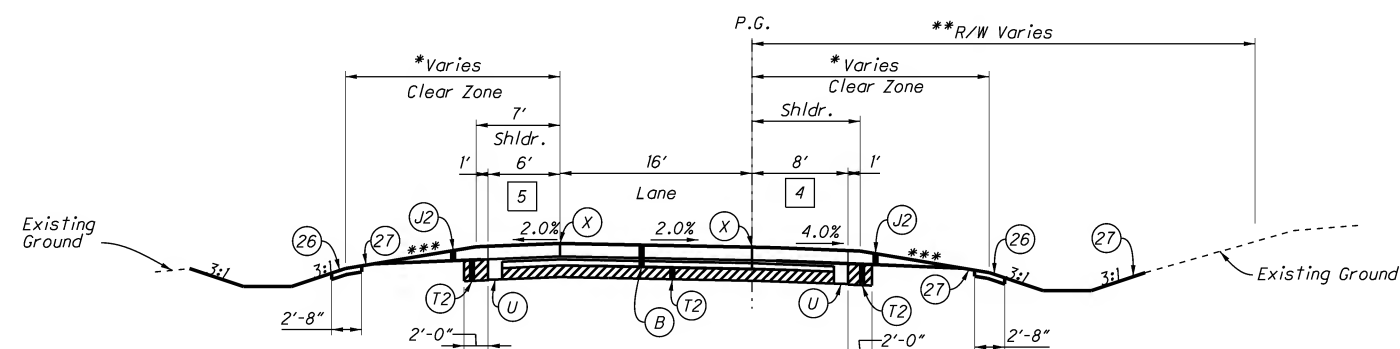
Paving Exception

Sta. 524+18.31 To Sta. 526+42.34 "SEL-3"



Typical Superelevated Section - Ramp "SEL-3"

Sta. 515+29.00 to Sta. 517+72.00 Line "SEL-3"



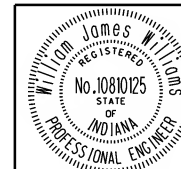
Typical Section - Ramp "SEL-3"

Sta. 526+42.34 to Sta. 526+90.00 Line "SEL-3"

- |  |   |
|--|---|
| 1 Guardrail With 6' Shoulder Applies<br>Sta. 522+93.91 To Sta. 524+18.31 "SEL-3"   | 4 Guardrail With 10' Shoulder Applies<br>Sta. 526+41.74 To Sta. 526+90.00 "SEL-3" |
| 2 Guardrail With 10' Shoulder Applies<br>Sta. 523+09.43 To Sta. 523+99.42 "SEL-3"  | 5 Guardrail With 6' Shoulder Applies<br>Sta. 526+26.22 To Sta. 527+51.22 "SEL-3"  |
| 3 Guardrail With 9.5' Shoulder Applies<br>Sta. 524+09.43 To Sta. 524+18.31 "SEL-3" |   |

\* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)  
 \*\* See Cross Sections For Specific Dimensions  
 \*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

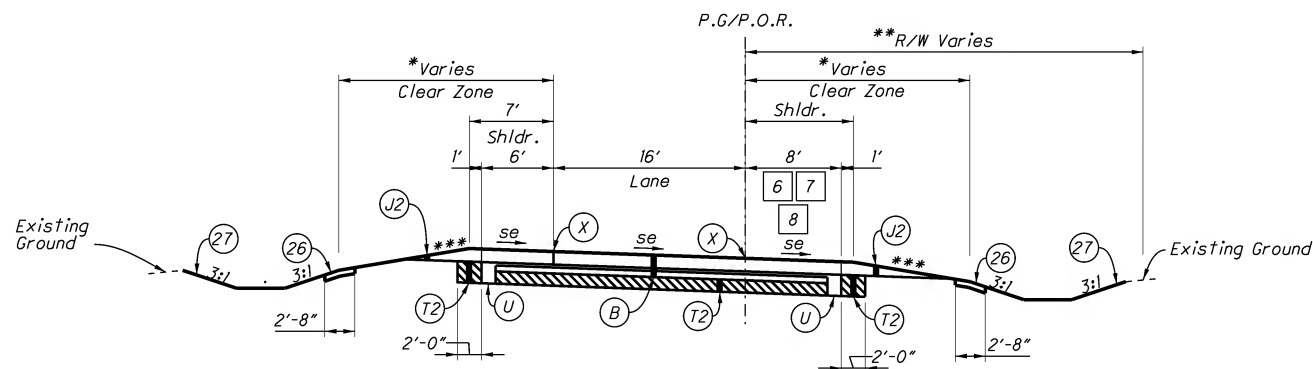
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|--|---|---------------------------------|
| (B) OC/OA, 8.5" on Subbase For PCCP<br>(10-1 Joints @ 16' O.C. w/ 1" Dia. Dowel Bars)<br>OR<br>165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on<br>275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on<br>330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on<br>250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on<br>330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm | (J2) Compacted Aggregate, No. 53, Variable Depth<br>(T2) Subgrade Treatment, Type IIA<br>(U) 6" Underdrain Pipe<br>(X) Construction Joint | (26) Sodding<br>(27) Seeding, R |
|--|---|---------------------------------|



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

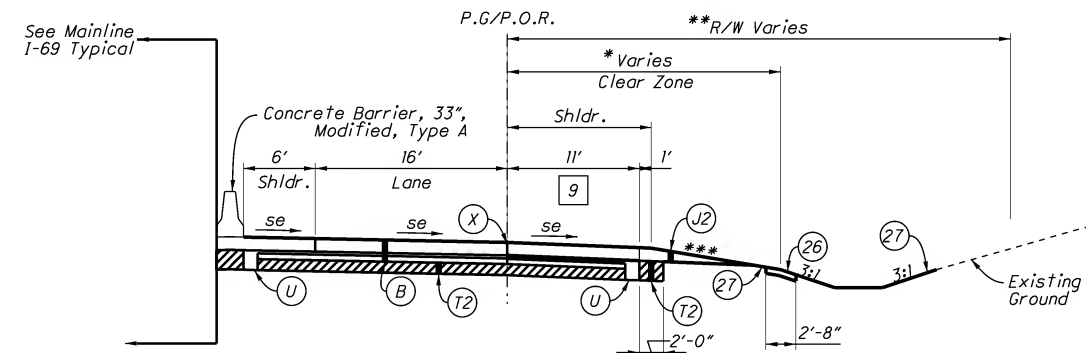
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMP "SEL-3"	

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SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE TY-04 PROJECT 1006075
	SHEETS 10 of 173



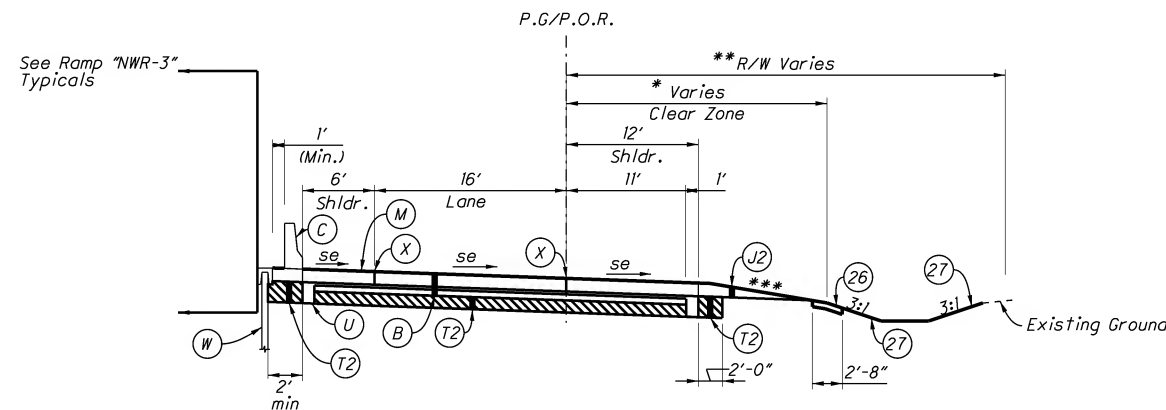
Typical Superelevated Section - Ramp "SEL-3"

Sta. 526+90.00 to Sta. 529+67.00 Line "SEL-3"  
Sta. 533+48.00 to Sta. 538+32.70 Line "SEL-3"



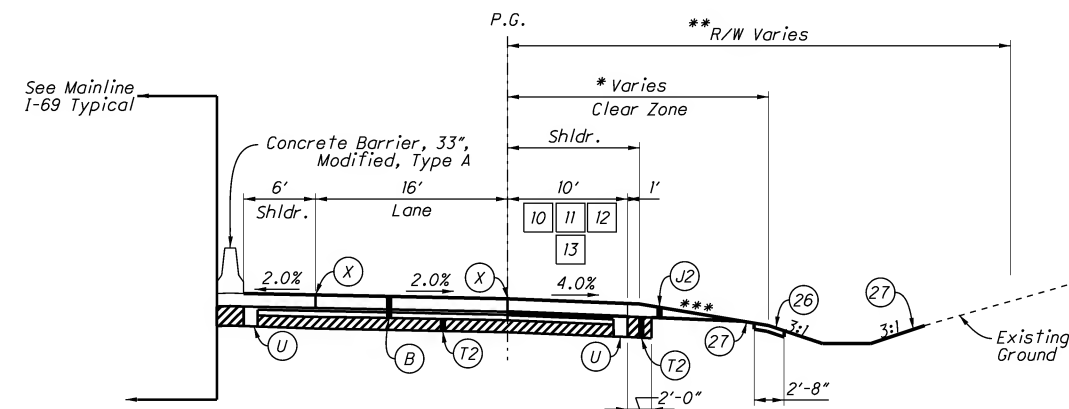
Typical Superelevated Section - Ramp "SEL-3"

Sta. 538+32.70 To Sta. 539+12.00 "SEL-3"



Typical Superelevated Section with Wall - Ramp "SEL-3"

Sta. 529+67.00 to Sta. 533+48.00 Line "SEL-3"

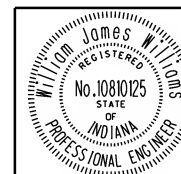


Typical Section - Ramp "SEL-3"

Sta. 539+12.00 to Sta. 542+40.00 Line "SEL-3"

- \* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)  
\*\* See Cross Sections For Specific Dimensions  
\*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B) OC/OA, 8.5" on Subbase For PCCP (10-1 Joints @ 18' O.C. w/ 1" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm	(C) Concrete, C, Railing (J2) Compacted Aggregate, No. 53, Variable Depth (M) 8.5" Concrete Moment Slab (T2) Subgrade Treatment, Type IIA	(U) 6" Underdrain Pipe (W) MSE Wall (X) Construction Joint (26) Sodding	(27) Seeding, R
--	--	--	-----------------



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS RAMP "SEL-3"

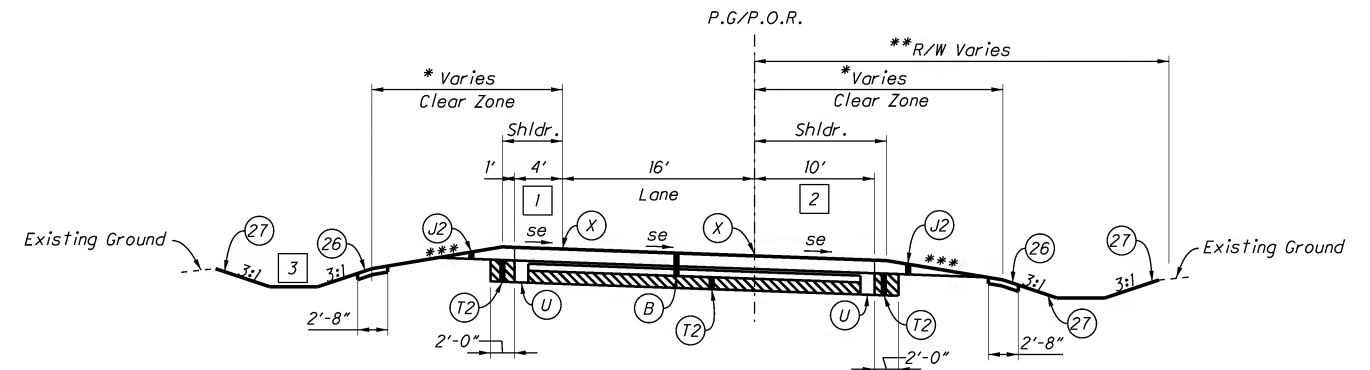
HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE TY-05 PROJECT 1006075

- 6 9.7' Shoulder Applies Sta. 526+42.34 To Sta. 526+90.00 "SEL-3"
- 7 Guardrail with 10' Shoulder Applies Sta. 526+90.00 To Sta. 527+66.74 "SEL-3"
- 8 Varies 8' To 11' Sta. 528+98.57 To Sta. 529+65.00 "SEL-3"
- 9 Varies 11' To 10.6' Sta. 538+32.70 To Sta. 539+12.00 "SEL-3"
- 10 Varies 10.6' To 10' Sta. 539+12.00 To Sta. 540+01.49 "SEL-3"
- 11 Guardrail Applies Varies 10' To 9.7' Sta. 541+45.02 To Sta. 541+70.09 "SEL-3"
- 12 Guardrail With 9.7' Applies Sta. 540+46.79 To Sta. 541+90.92 "SEL-3"
- 13 Bridge Rail, FC Applies Sta. 541+90.92 To Sta. 542+40.00 "SEL-3"

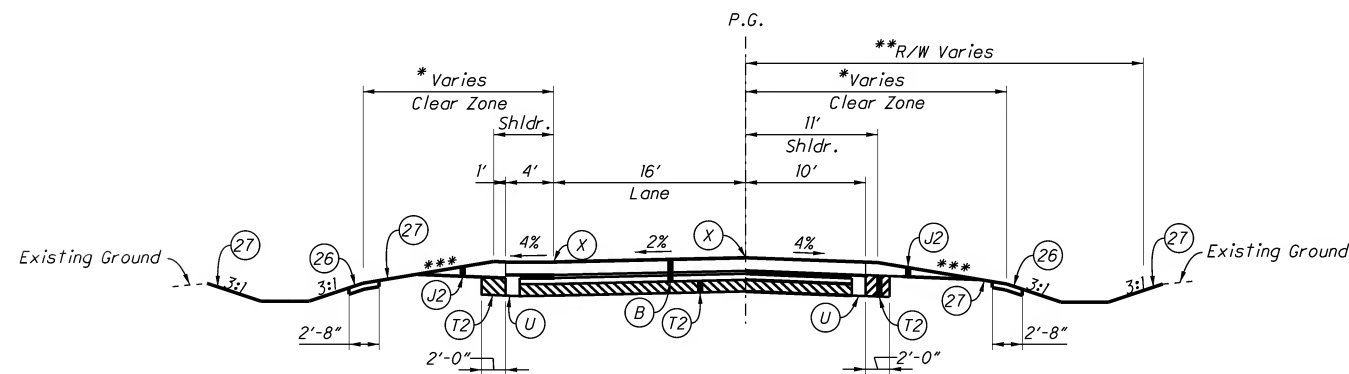


\* See Mainline Typical Section

Typical Section - Ramp "SER-3"  
Sta. 1511+52.65 to Sta. 1515+20.69 Line "SER-3"



Typical Superelevated Section - Ramp "SER-3"  
Sta. 1515+85.00 to Sta. 1525+87.90 Line "SER-3"



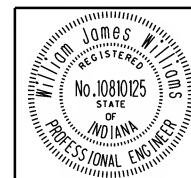
Typical Section - Ramp "SER-3"  
Sta. 1515+20.69 to Sta. 1515+85.00 Line "SER-3"

\* See "NWR-3" Typical Section

Typical Superelevated Section - Ramp "SER-3"  
Sta. 1525+88.00 to Sta. 1527+31.33 Line "SER-3"

- \* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)
- \*\* See Cross Sections For Specific Dimensions
- \*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B) OC/OA, 8.5" on Subbase For PCCP (0-1 Joints @ 16' O.C. w/ 1" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm	(J2) Compacted Aggregate, No. 53, Variable Depth (T2) Subgrade Treatment, Type IIA (U) 6" Underdrain Pipe (X) Construction Joint	(26) Sodding (27) Seeding, R
--	--	------------------------------



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

- 1 Guardrail With 6' Shoulder Applies Sta. 1516+00.00 To 1520+00.00 "SER-3"
- 2 Varies 10' To 8' Sta. 1516+69.44 To Sta. 1517+20.02 Line "SER-3"
- 3 6:1 Special V-Ditch Applies Sta. 1522+47.00 To Sta. 1525+90.00 Line "SER-3"

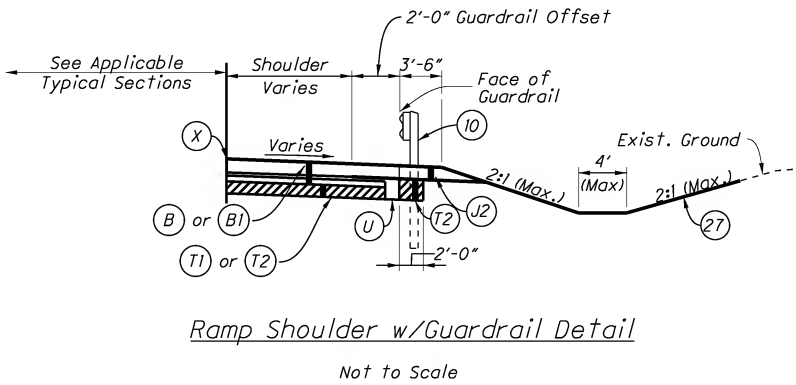
INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS RAMPS "SER-3"

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-06
CONTRACT IR-33742	SHEETS 12 of 173 PROJECT 1006075

DATE: 10/3/2012  
FILE: N:\2012\10\3\1006075\Drawings\14\_Typical\1515+20.69 to 1515+85.00 Line "SER-3".dgn

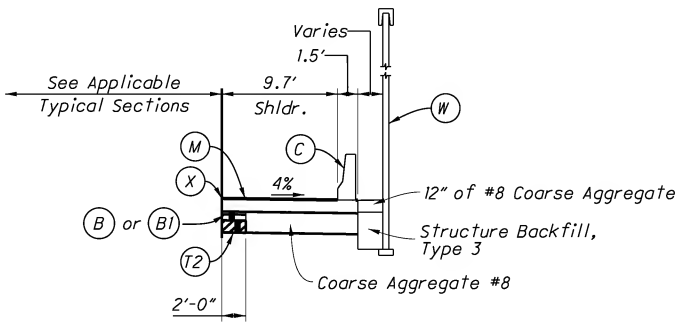
Ramp	Station		Design Speed (mph)	Clear Zone (ft)	
	From	To		Lt	Rt
NER-3					
	500+00.00	506+89.00	45	20	20
	506+89.00	514+86.00	45	20	24
	514+86.00	515+56.00	45	20	20
	515+56.00	530+92.08	45	24	20
NWR-3					
	1550+40.68	1559+32.00	50	26	20
	1559+32.00	1560+00.00	45	20	20
	1560+00.00	1574+05.83	45	20	25
	1576+14.15	1579+88.74	45	20	25
	1579+88.74	1593+09.00	45	24	20
	1593+09.00	1598+85.14	50	20	20
SEL-3					
	513+90.65	517+72.00	45	12	15
	517+72.00	524+18.31	45	12	12
	526+42.34	526+90.00	45	12	12
	526+90.00	539+12.00	30	11	10
SER-3					
	539+12.00	542+40.00	60	20	20
SER-3					
	1515+21.34	1515+85.00	50	12	12
	1515+85.00	1525+87.90	35	12	10

Clear Zone Table



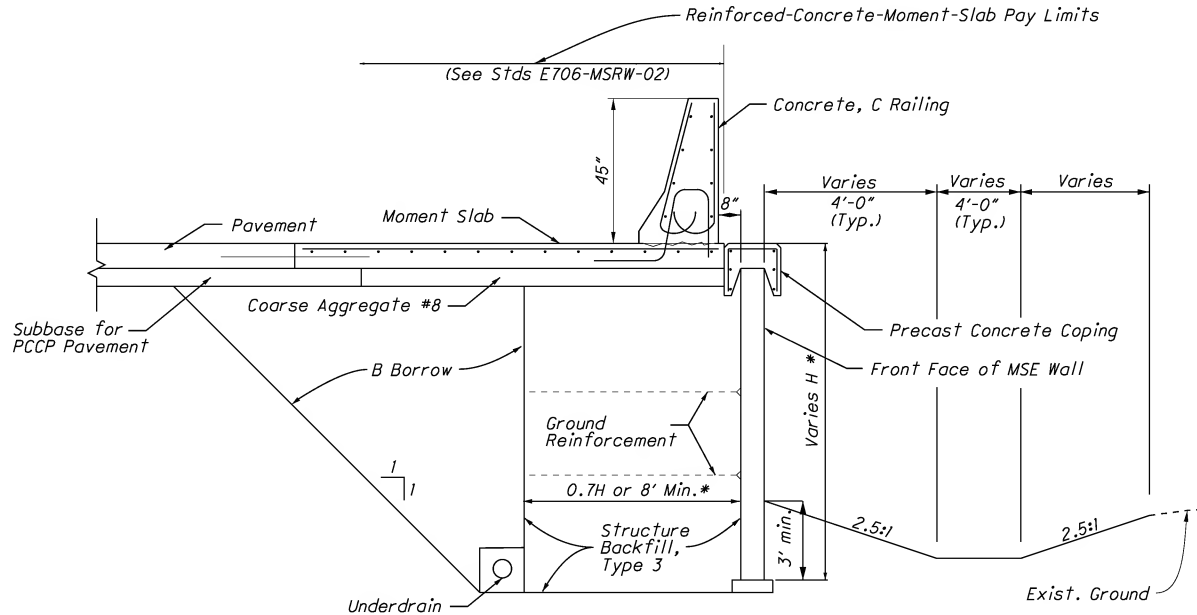
Ramp Shoulder w/Guardrail Detail

Not to Scale



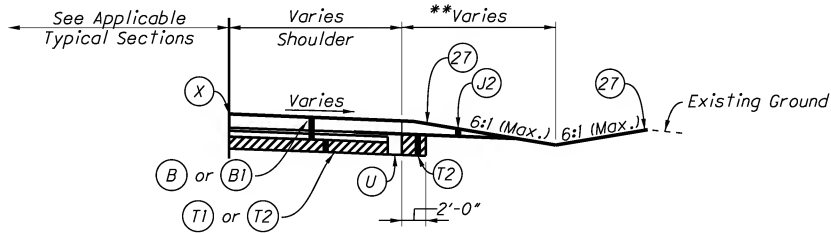
Typical Section - Ramp Shoulder with Bridge Rail Detail

Not to Scale



Typical Section - Moment Slab Detail

Not to Scale



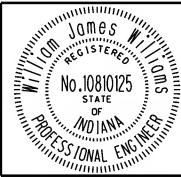
6:1 Special V-Ditch Detail

Not to Scale

\*\* See Cross Sections For Specific Dimensions  
\*\*\* Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

- (B) OC/OA, 10.5" on Subbase For PCCP (D-I Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR  
165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm
- (BI) OC/OA, 8.5" on Subbase For PCCP (D-I Joints @ 16' O.C. w/ 1" Dia. Dowel Bars) OR  
165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm

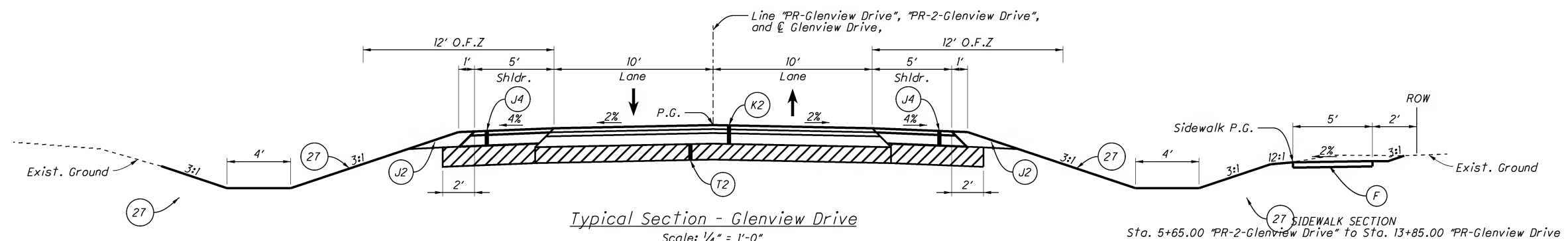
- (C) Concrete, C, Railing  
(J2) Compacted Aggregate, No. 53, Variable Depth  
(M) 8.5" Concrete Moment Slab  
(T1) Subgrade Treatment, Type IA
- (T2) Subgrade Treatment, Type IIA  
(U) 6" Underdrain Pipe  
(W) MSE Wall  
(X) Construction Joint
- (10) W-Beam Guardrail  
(27) Seeding, R



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS DETAIL SHEET

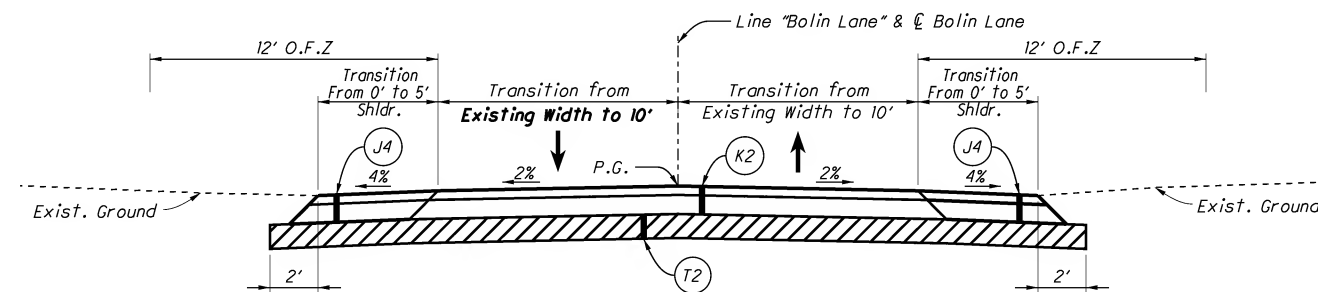
HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-07
CONTRACT IR-33742	SHEETS 13 of 173 PROJECT 1006075



Typical Section - Glenview Drive  
Scale: 1/4" = 1'-0"

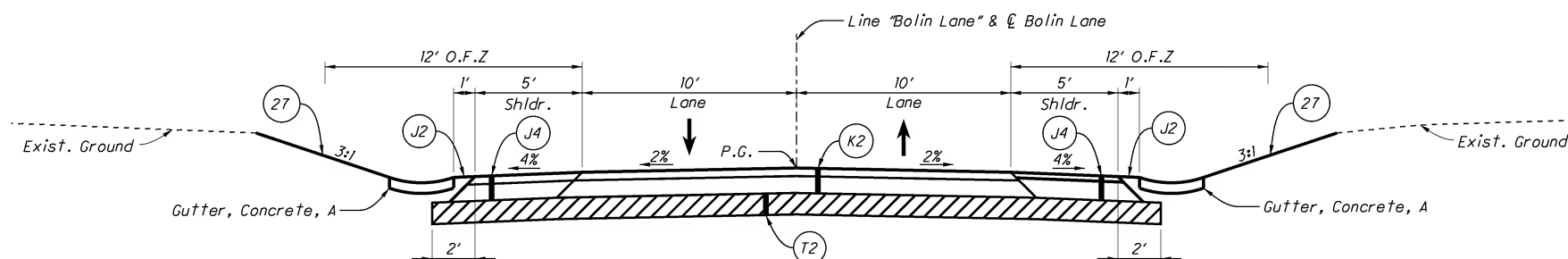
Sta. 2+00.00 to Sta. 6+31.15 (BK) "PR-2-GLENVIEW DRIVE"  
Sta. 6+26.45 (AH) "PR-GLENVIEW DRIVE" to Sta. 13+49.59 "PR-GLENVIEW DRIVE"

Station Equation  
POT Sta. 6+31.15 "PR-2-Glenview Drive" (BK) =  
PT Sta. 6+26.45 "PR-Glenview Drive" (AH)



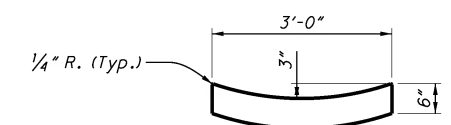
Typical Section - Bolin Lane  
Scale: 1/4" = 1'-0"

Sta. 17+30.00 to Sta. 18+00.00 "Bolin Lane"  
Sta. 22+00.00 to Sta. 22+25.00 "Bolin Lane"



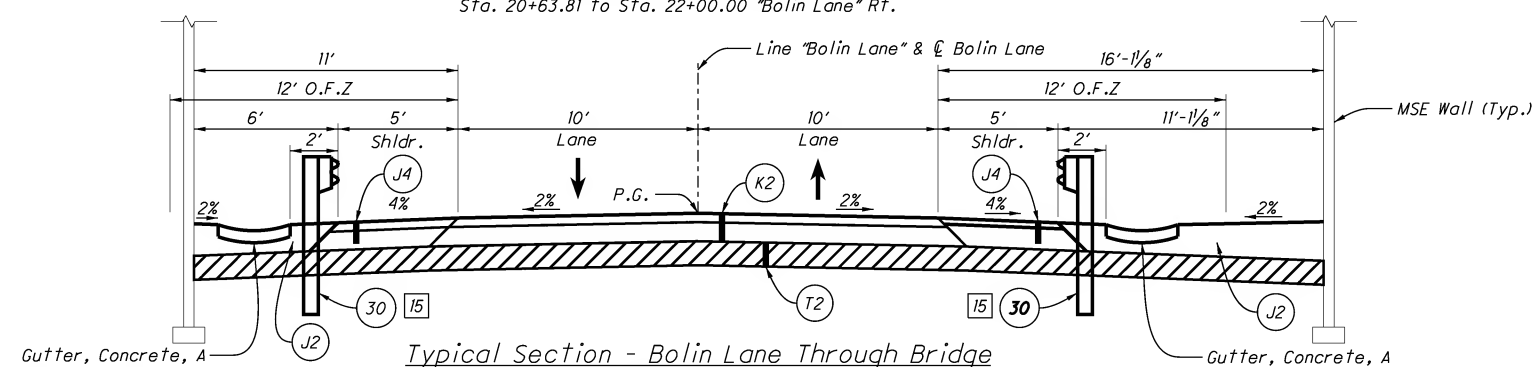
Typical Section - Bolin Lane  
Scale: 1/4" = 1'-0"

Sta. 18+00.00 to Sta. 19+31.15 "Bolin Lane" Lt.  
Sta. 18+00.00 to Sta. 19+00.85 "Bolin Lane" Rt.  
Sta. 20+93.88 to Sta. 22+00.00 "Bolin Lane" Lt.  
Sta. 20+63.81 to Sta. 22+00.00 "Bolin Lane" Rt.



GUTTER, CONCRETE, A DETAIL  
Scale: N.T.S.

Sta. 18+00.00 to Sta. 22+25.00 "Bolin Lane" Lt.  
Sta. 18+00.00 to Sta. 20+60.95 "Bolin Lane" Rt.



Typical Section - Bolin Lane Through Bridge  
Scale: 1/4" = 1'-0"

Sta. 19+31.15 to Sta. 20+93.88 "Bolin Lane" Lt.  
Sta. 19+00.85 to Sta. 20+63.81 "Bolin Lane" Rt.

- (K2) 165 lbs/Sys HMA, Surface, Type "B" on 275 lbs/Sys HMA, Intermediate, Type "B" on 6" Compacted Aggregate, No. 53, Base
- (J4) 165 lbs/Sys HMA, Surface, Type "B" on 275 lbs/Sys HMA, Intermediate, Type "B" on 6" Compacted Aggregate, No. 53, Base
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (T2) Subgrade Treatment, Type IIA
- (27) Seeding, R
- (30) Guardrail, W-Beam, 6'-3" Spa.
- (F) Concrete Sidewalk (4")
- (15) Guardrail from Sta. 19+30.00 to Sta. 21+95.00 "Bolin Lane" Lt.  
Guardrail from Sta. 18+01.50 to Sta. 20+64.00 "Bolin Lane" Rt.



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	
DATE		DATE	
DESIGNED: MDO	DRAWN: KEH		
CHECKED: HCF	CHECKED: MDO		

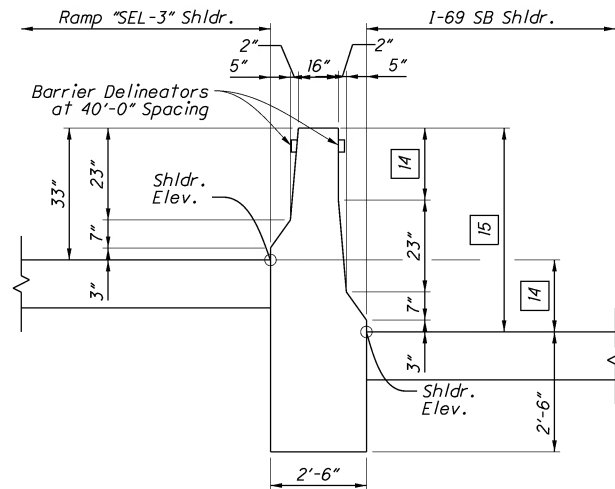
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS	
BOLIN LANE & GLENVIEW DRIVE	

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		N/A	
VERTICAL SCALE		DESIGNATION	
AS NOTED		1006075	
SURVEY BOOK		PAGE	
ELECTRONIC / AERIAL		TY-04	
CONTRACT		PROJECT	
IR-33742		1006075	

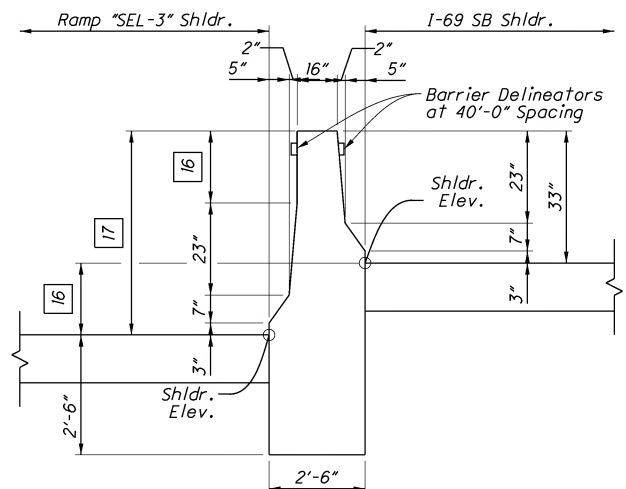
DATE: 10/1/2012  
TIME: 11:304 PM  
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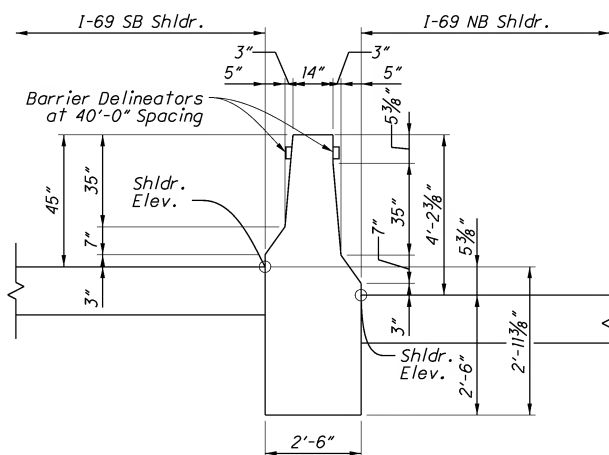
DATE: 10/17/2012  
TIME: 10:41:05 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500RD\_L\_T05.dgn



**Concrete Barrier, 33", Modified, Type A1**  
Not to Scale  
Sta. 1526+98.91 to Sta. 1530+60.00 "PR-A" Lt.

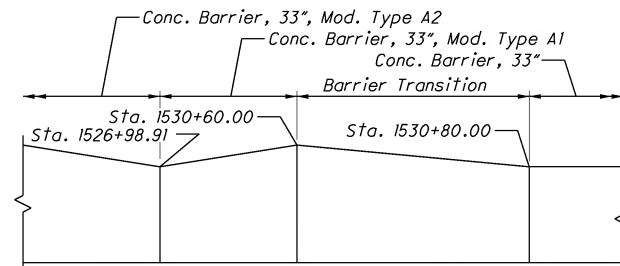


**Concrete Barrier, 33", Modified, Type A2**  
Not to Scale  
Sta. 1526+34.92 to Sta. 1526+98.91 "PR-A" Lt.

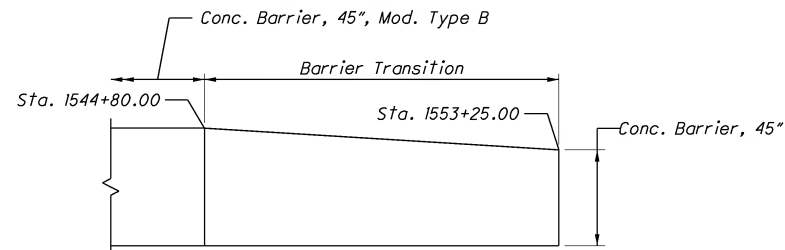


**Concrete Barrier, 45", Modified, Type B**  
Not to Scale  
Sta. 1522+94.34 to Sta. 1544+80.00 "PR-A"

- 14 Varies from 0" at 1526+98.91 to 9 1/2" at 1530+60.00
- 15 Varies from 33" at 1526+98.91 to 42 1/2" at 1530+60.00
- 16 Varies from 1 1/2" at 1526+34.92 to 0" at 1526+98.91
- 17 Varies from 34 1/2" at 1526+34.92 to 33" at 1526+98.91



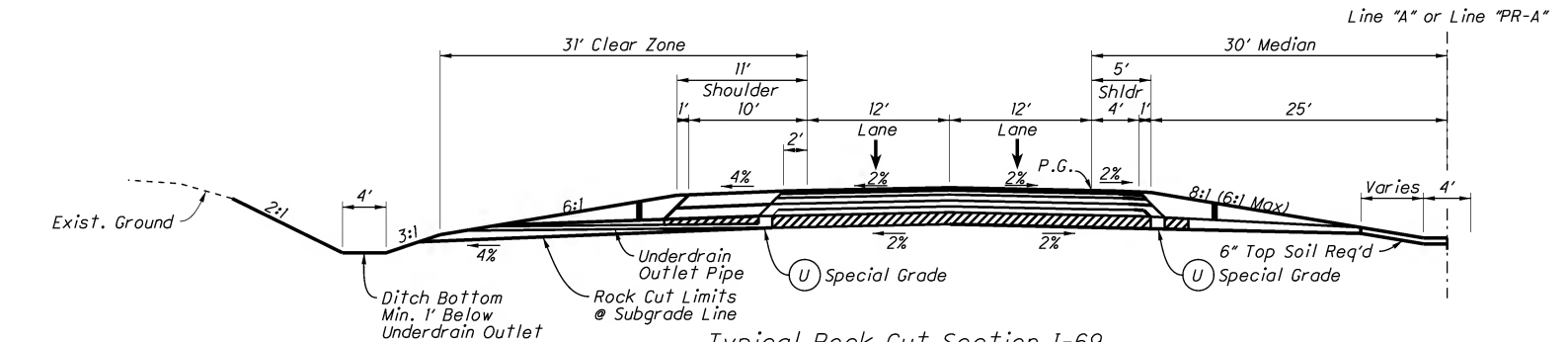
**Barrier Transition  
Type A2 to Type A1 to Standard  
Elevation**  
Not to Scale



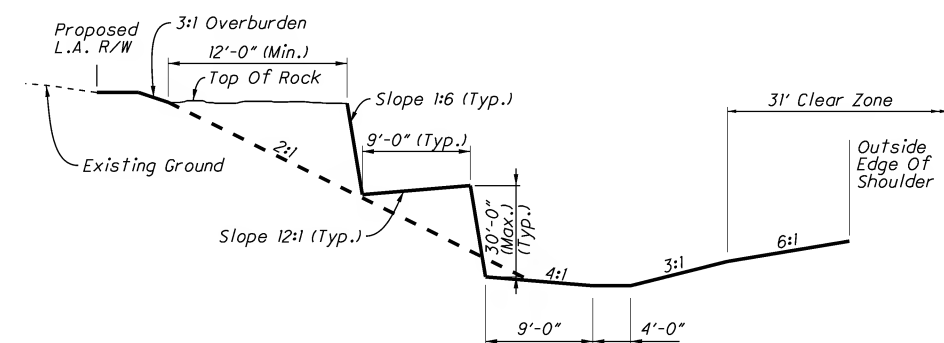
**Barrier Transition - Type B to Standard - Elevation**  
Not to Scale

- (A) PCCP or HMA - Rural Section  
(See Applicable Typical Section for Details)
- (A1) PCCP or HMA - Urban Section  
(See Applicable Typical Section for Details)
- (J) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 6" Compacted Aggregate, No. 53, Base
- (J1) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 495 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on 7" Compacted Aggregate, No. 53, Base
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (J3) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 660 lbs/Sys HMA, Base, Type "D"
- (T1) Subgrade Treatment  
Type 1A: Shall Be Used In Embankment And Natural Soil Or Non-Durable Rock Cut Areas  
Type 1C: Shall Be Used In Rock Cut Areas  
(See Geotechnical Report For Approximate Locations)
- (U) 6" Underdrain Pipe
- (Y) Longitudinal Joint
- (26) Sodding
- (27) Seeding, R

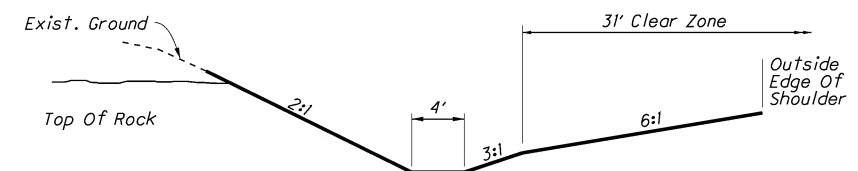
**\*\* For Paved Shoulder Width Greater Than 4':**  
The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope Of 2% Or If The Superelevation Rate Is 4% Or Less.  
The Shoulder Slope Shall Be 2% Down From The Traveled Way If The Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.  
The Shoulder Slope Shall Be 1% Up From The Traveled Way If The Superelevation Rate Is Greater Than 6%.



**Typical Rock Cut Section I-69**  
(Optional Rock Cut < 10' with HMA Option Shown)  
(Optional Rock Cut > 10' Similar)  
Scale: 1/8" = 1'-0"



**Alternate Rock Cut > 10'**  
Not to Scale



**Alternate Rock Cut < 10'**  
Not to Scale



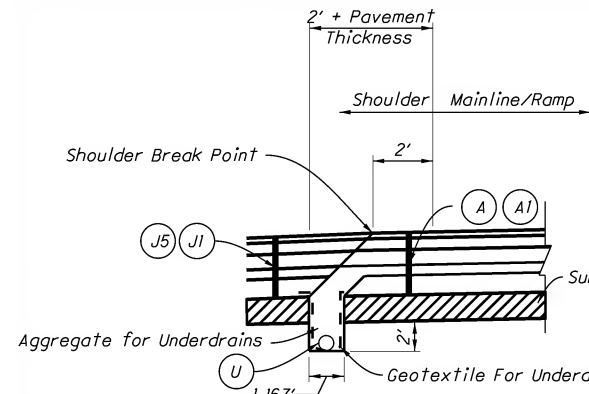
RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE: 9/6/10

DESIGNED: MDO  
DRAWN: BDM  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

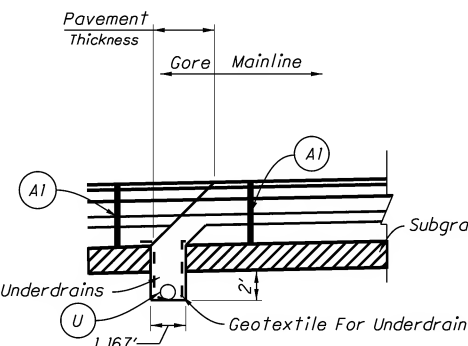
TYPICAL SECTIONS  
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	7Y-05
CONTRACT	PROJECT
IR-33742	1006075



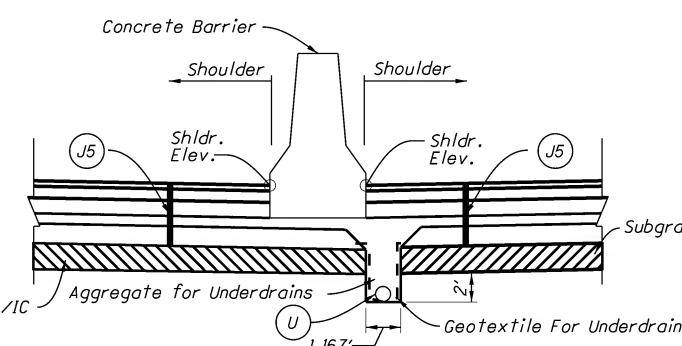
Outside Shoulder w/ Underdrain Detail - HMA Option  
Not to Scale

- (A) (J1) HMA - Rural Section  
(See Applicable Typical Section for Details)  
(A1) (J5) HMA - Urban Section  
(See Applicable Typical Section for Details)



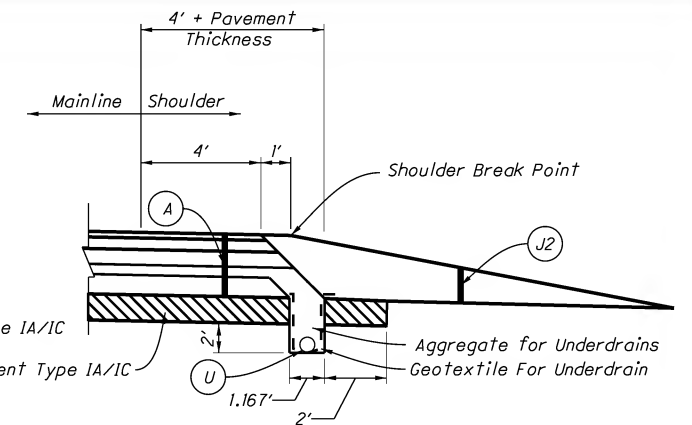
Outside Shoulder at Gore w/ Underdrain Detail - HMA Option  
Not to Scale

- (A1) HMA - Urban Section  
(See Applicable Typical Section for Details)



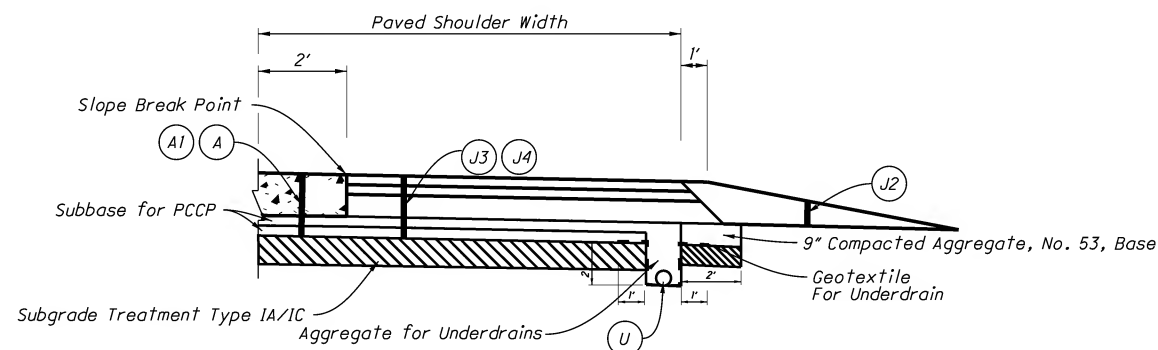
Inside Shoulder at Concrete Barrier w/ Underdrain Detail - HMA Option  
Not to Scale

- (J5) HMA - Urban Section  
(See Applicable Typical Section for Details)



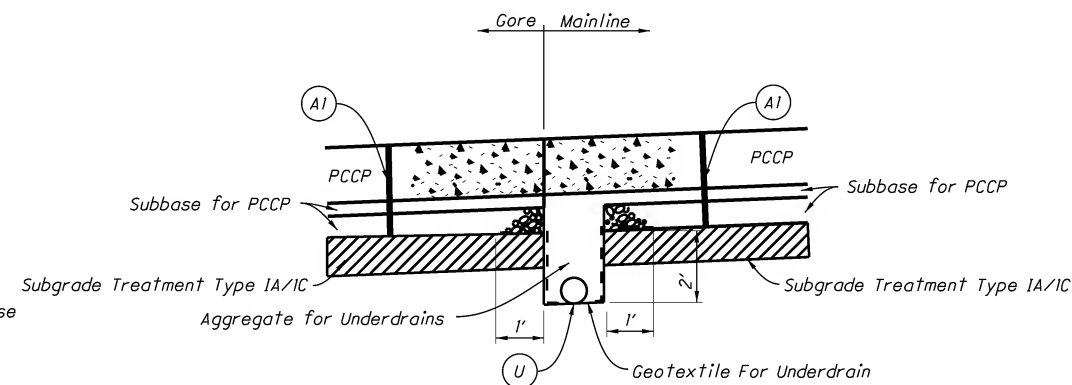
Inside Shoulder w/ Underdrain Detail - HMA Option  
Not to Scale

- (A) (J2) HMA - Rural Section  
(See Applicable Typical Section for Details)



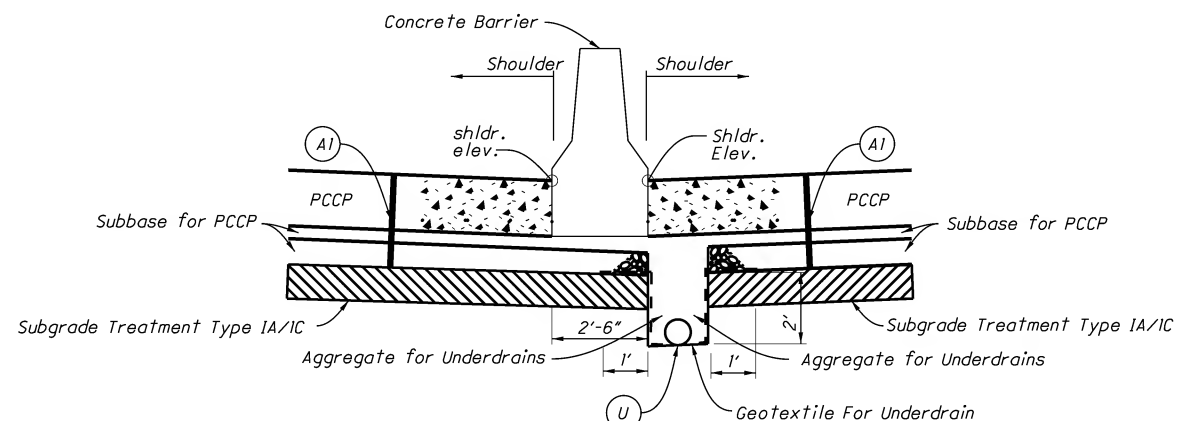
Outside Shoulder w/ Underdrain Detail - PCCP Option  
Not to Scale

- (A) (J3) Rural Section  
(See Applicable Typical Section for Details)  
(A1) (J4) Urban Section  
(See Applicable Typical Section for Details)



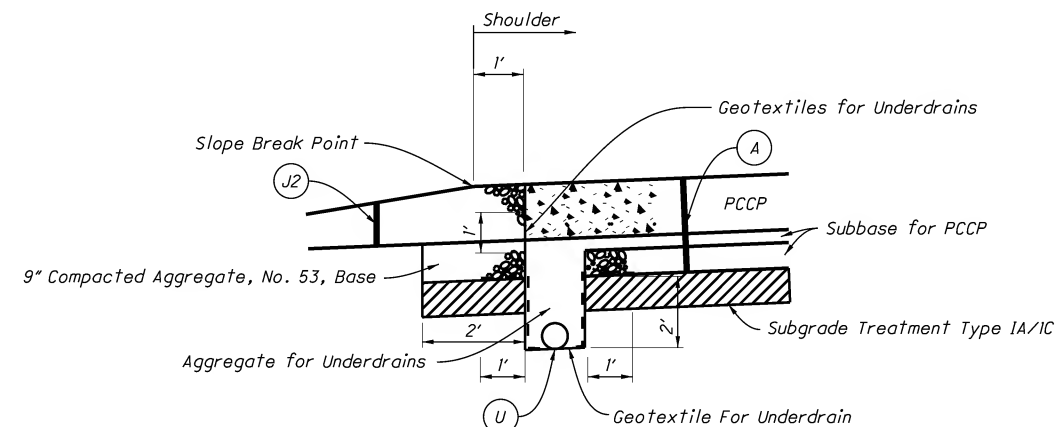
Outside Shoulder at Gore w/ Underdrain Detail - PCCP Option  
Not to Scale

- (A1) PCCP - Urban Section  
(See Applicable Typical Section for Details)



Inside Shoulder at Concrete Barrier w/ Underdrain Detail - PCCP Option  
Not to Scale

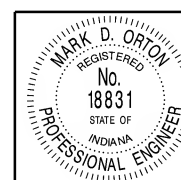
- (A1) PCCP - Urban Section  
(See Applicable Typical Section for Details)



Inside Shoulder w/ Underdrain Detail - PCCP Option  
Not to Scale

- (A) (J2) PCCP - Rural Section  
(See Applicable Typical Section for Details)

(U) 6" Underdrain Pipe



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

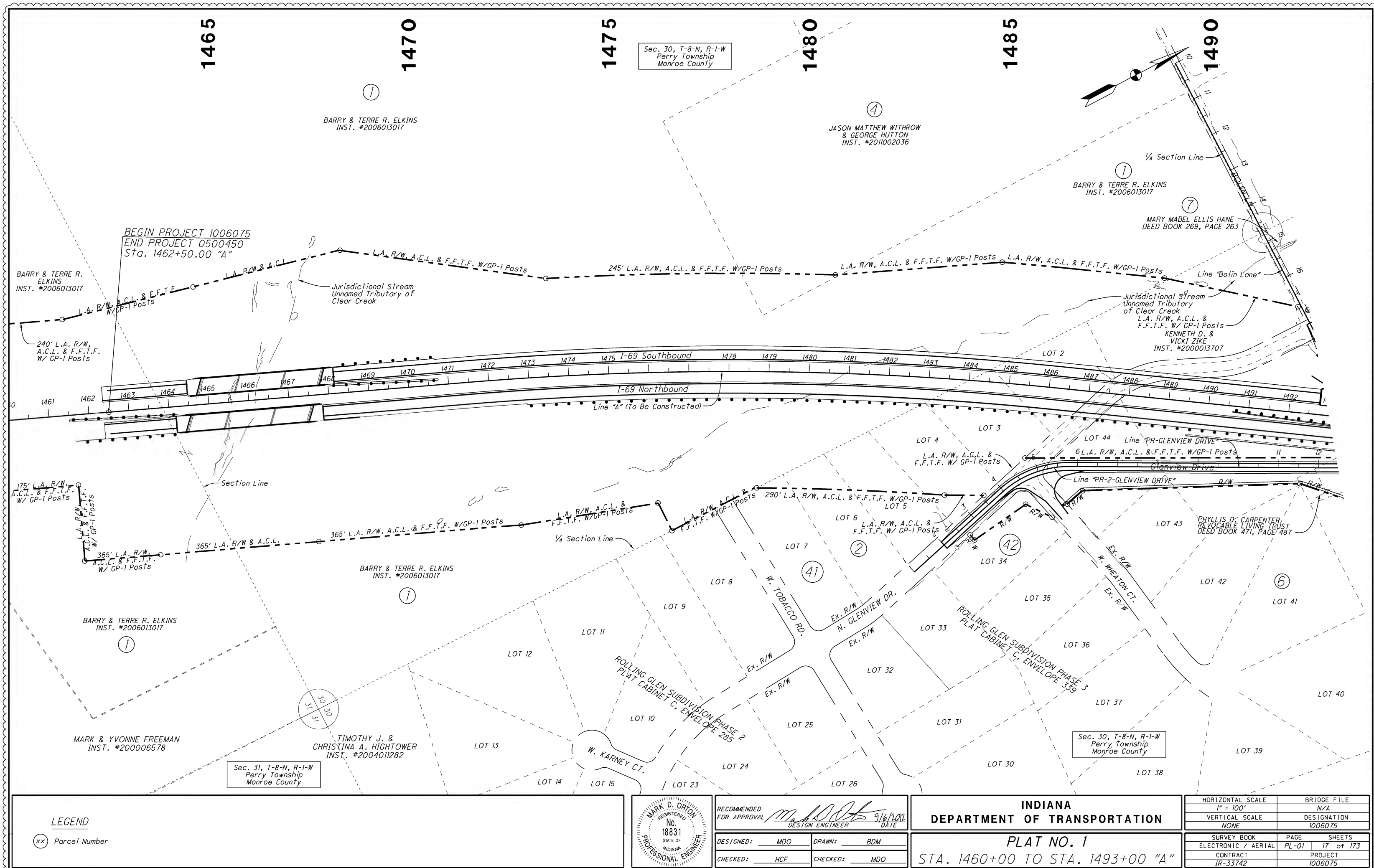
DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

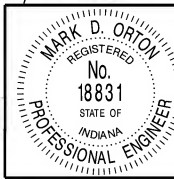
TYPICAL SECTIONS  
UNDERDRAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TY-II
CONTRACT	PROJECT
IR-33742	1006075





LEGEND  
xx Parcel Number



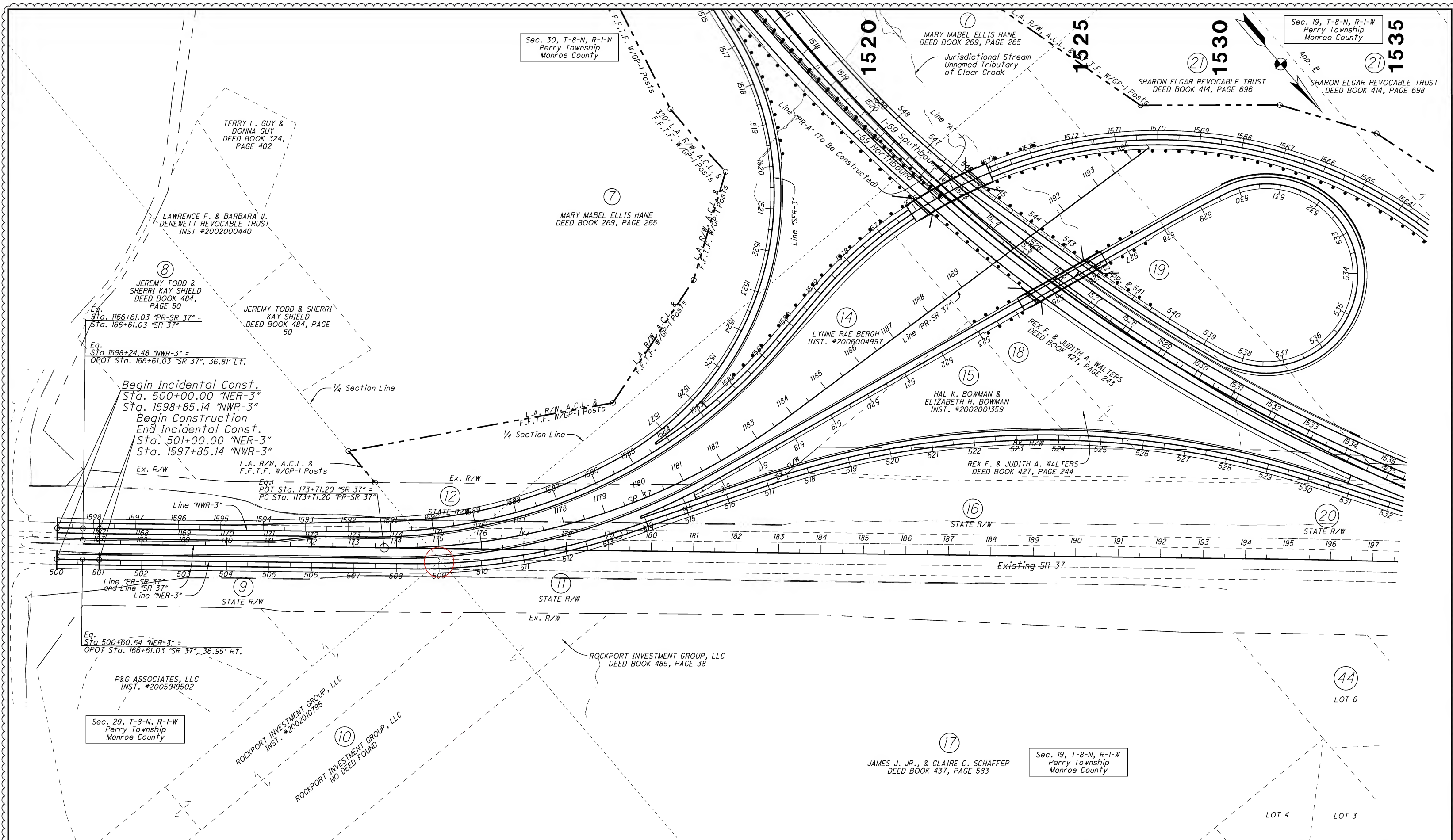
RECOMMENDED FOR APPROVAL	<i>[Signature]</i> 9/6/2009 DESIGN ENGINEER DATE
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION
PLAT NO. 1
STA. 1460+00 TO STA. 1493+00 "A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PL-01
CONTRACT IR-33742	SHEETS 17 of 173
	PROJECT 1006075







LEGEND

xx Parcel Number

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL  
DESIGNED: MDO  
CHECKED: HCF

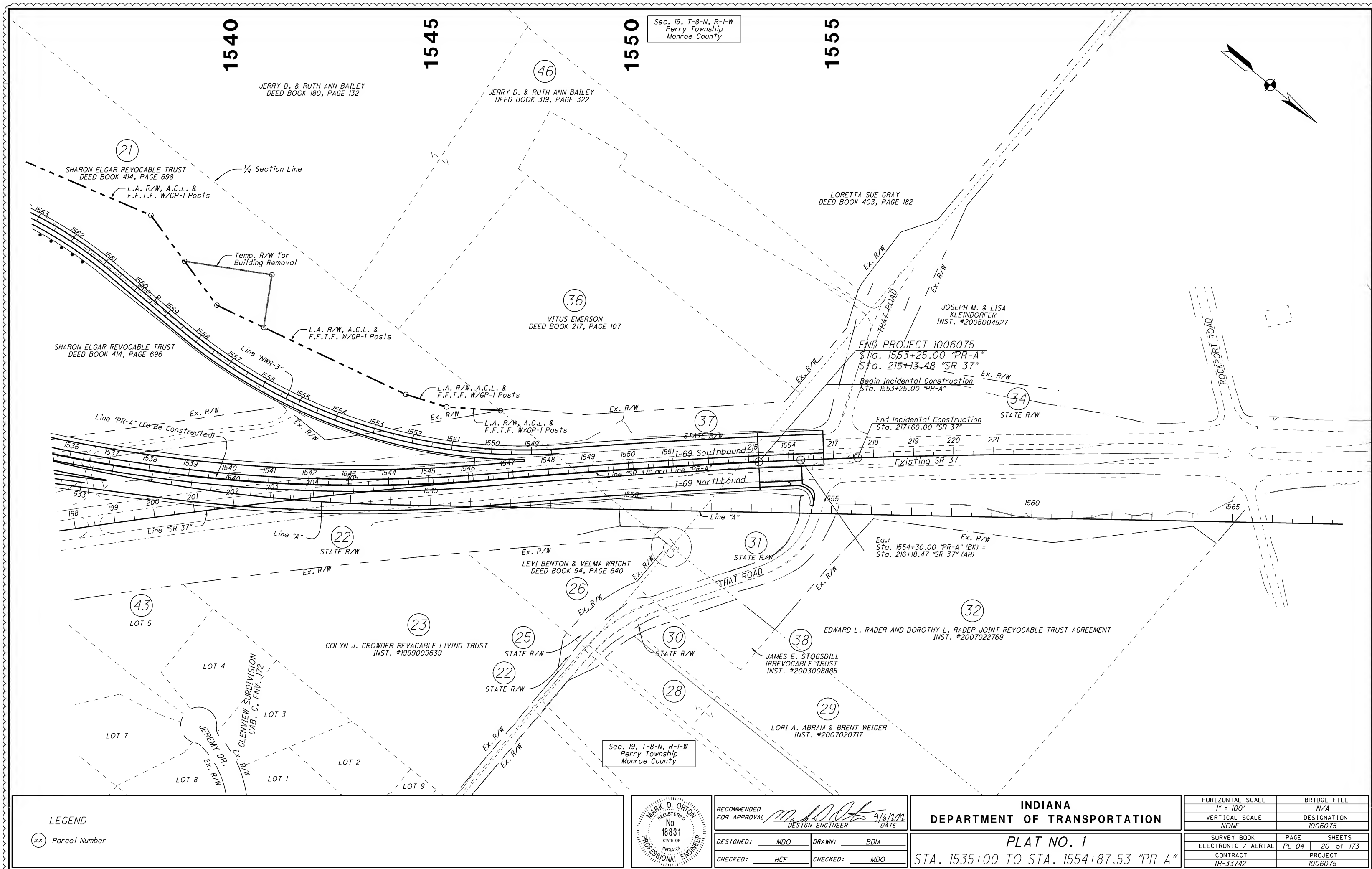
DESIGN ENGINEER  
DRAWN: BDM  
CHECKED: MDO

DATE  
9/6/10

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1  
STA. 1517+00 TO STA. 1535+00 "PR-A"

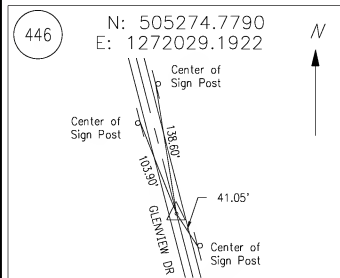
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PL-03
CONTRACT IR-33742	SHEETS 19 of 173
	PROJECT 1006075



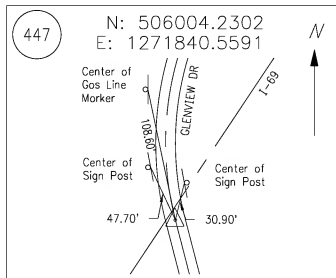


# BASELINE CONTROL POINTS

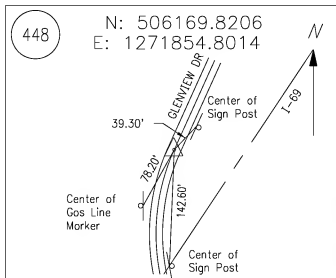
## BENCHMARK DATA



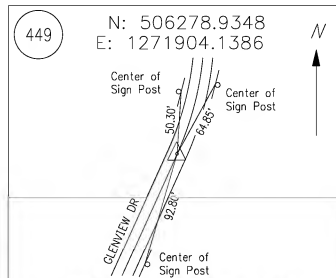
MAG NAIL w/WASHER SET  
P.O.T. STA. 0+00.00 LINE "GLENVIEW DR"



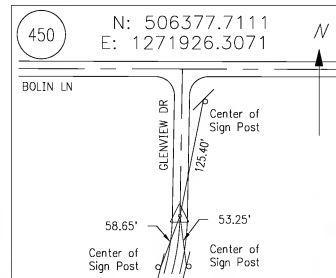
MAG NAIL w/WASHER SET  
P.C. STA. 7+53.45 LINE "GLENVIEW DR"



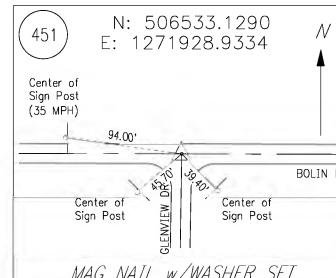
MAG NAIL w/WASHER SET  
P.T. STA. 9+22.87 LINE "GLENVIEW DR"



MAG NAIL w/WASHER SET  
P.C. STA. 10+42.62 LINE "GLENVIEW DR"



MAG NAIL w/WASHER SET  
P.T. STA. 11+44.56 LINE "GLENVIEW DR"



MAG NAIL w/WASHER SET  
EQ. P.O.T. STA. 17+44.67 LINE "BOLIN LN"=  
P.O.T. STA. 13+00.00 LINE "GLENVIEW DR"



MAG NAIL w/WASHER SET  
EQ. P.O.T. STA. 4+70.91 LINE "GLENVIEW DR"=  
P.O.T. STA. 0+00.00 LINE "WHEATON CT"

BM#	STATION	OFFSET	LINE	NORTHING	EASTING	ELEVATION
BLA #64						716.080

BLA- ALUMINUM MONUMENT JUST SOUTHEASTERLY OF VICTOR PIKE IN GRASS MEDIAN OF S.R. 37

TBM 1	217+17.04	59.6075	SR 37	512065.8437	1271281.55	772.745
-------	-----------	---------	-------	-------------	------------	---------

RAILROAD SPIKE SET IN SHOULDER OF NORTH BOUND LANE OF S.R. 37 ON WEST SIDE AND 50 NORTH OF THE CENTERLINE OF THAT ROAD

TBM #9003						761.425
-----------	--	--	--	--	--	---------

MAG NAIL IN PWP (NO NUMBER) SOUTH SIDE KOONTZ RD ACROSS FROM HOUSE #5714

TBM# 9004						688.432
-----------	--	--	--	--	--	---------

BOAT SPIKE FOUND IN THE NORTHEAST FACE OF A POWER POLE (#159-362) 1.0' ABOVE GRADE, LOCOTED 25' WEST OF THE INTERSECTION OF DILLMAN ROAD AND VICTOR PIKE, 1.0' SOUTH OF THE CENTERLINE OF A GRAVEL DRIVE AND 0.7' MILES WEST OF THE CENTERLINE OF DILLMAN ROAD/S.R. 37

TBM# 9005						607.963
-----------	--	--	--	--	--	---------

CUT "A" ON THE NORTHEAST CORNER OF A CONCRETE CASTING OF A DROP INLET DRAIN, LOCATED 35' WEST OF THE CENTERLINE OF VICTOR PIKE, 15 NORTH OF THE BACK OF CURB OF INTERSECTION OF VICTOR PIKE AND TRAMWAY ROAD THE SOUTH ENTRANCE TO STONE MILL,

TBM# 9006	10+89.63	-26.7818	BOLIN LANE	506564.7417	1271274.1174	660.2791
-----------	----------	----------	------------	-------------	--------------	----------

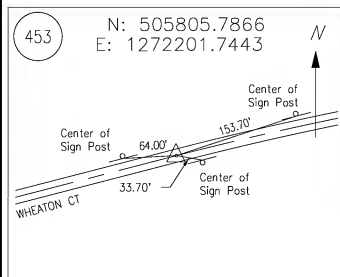
CUT " " IN THE SOUTHEAST CORNER OF A CONCRETE CULVERT, LOCATED 20' NORTH OF THE CENTERLINE OF BOLIN LANE AND 200' WEST OF THE INTERSECTION OF VICTOR PIKE AND BOLIN LANE

TBM 9077	198+20.85	-236.1524	SR 37	510495.6128	1272399.7871	762.369
----------	-----------	-----------	-------	-------------	--------------	---------

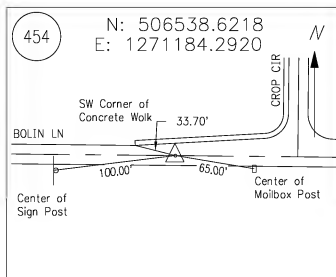
BOAT SPIKE SET IN THE EAST FACE OF A POWER POLE (#763-037) 0.5' ABOVE GRADE, LOCATED 50' WEST OF THE CENTERLINE OF BIG SKY LANE AND 150' WEST OF THE INTERSECTION OF S.R. 37 AND BIG SKY LANE.

TBM 9500						655.240
----------	--	--	--	--	--	---------

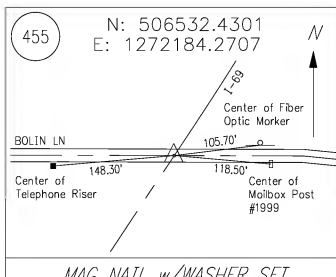
CUT " " IN THE NORTHWEST CORNER OF ELECTRIC BOX #25 (2038) AT SOUTHWEST CORNER OF WHEATON COURT & GLENVIEW DRIVE



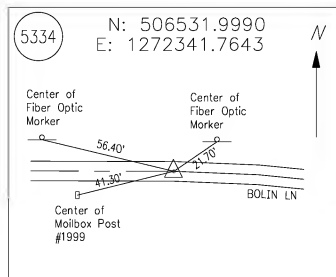
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P.O.T. STA. 3+00.00 LINE "WHEATON CT"



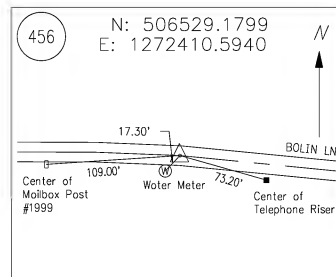
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P.O.T. STA. 10+00.00 LINE "BOLIN LN"



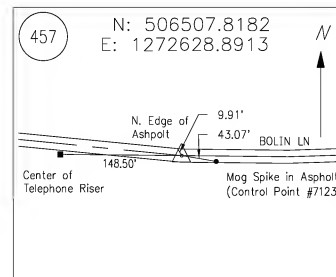
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P.O.T. STA. 20+00.00 LINE "BOLIN LN"



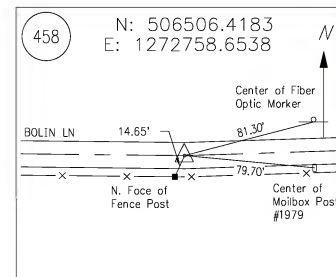
RAILROAD SPIKE FOUND  
P.I. STA. 21+57.50 LINE "BOLIN LN"



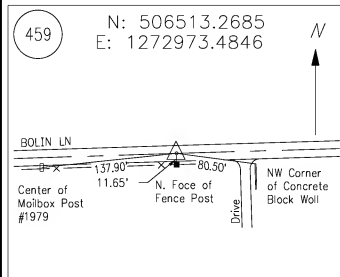
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P.I. STA. 22+26.39 LINE "BOLIN LN"



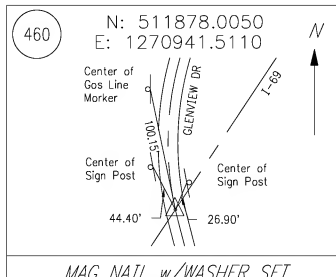
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P.I. STA. 24+45.73 LINE "BOLIN LN"



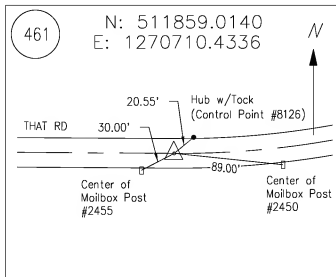
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P.I. STA. 25+75.50 LINE "BOLIN LN"



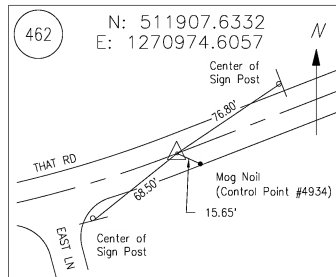
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P.I. STA. 27+90.94 LINE "BOLIN LN"



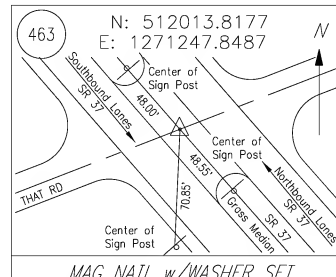
MAG NAIL w/WASHER SET  
EQ. P.O.T. STA. 1487+54.27 LINE "A"=  
P.O.C. STA. 7+61.96 LINE "GLENVIEW DR"



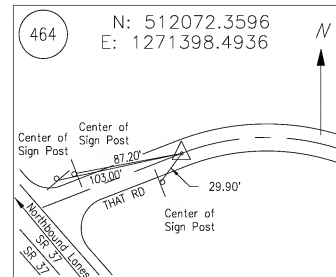
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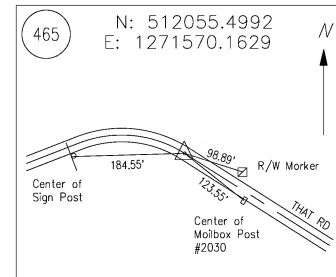
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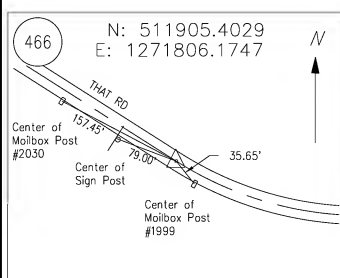
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EQ. P.O.C. STA. 217+00.00 LINE "SR 37"=  
P.O.T. STA. 49+73.99 LINE "THAT RD"



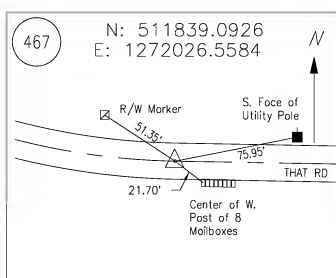
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P.C. STA. 51+35.61 LINE "THAT RD"



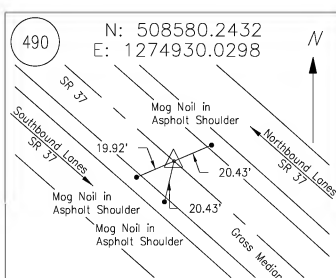
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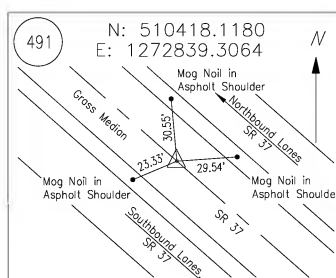
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P.C. STA. 55+94.20 LINE "THAT RD"



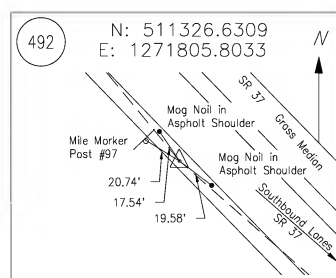
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P.T. STA. 58+28.43 LINE "THAT RD"



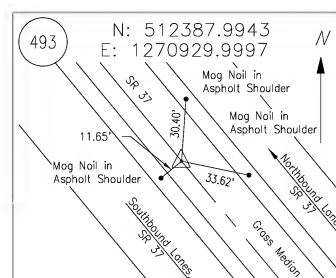
1" Ø REBAR FOUND  
P.T. STA. 166+61.04 LINE "SR 37"



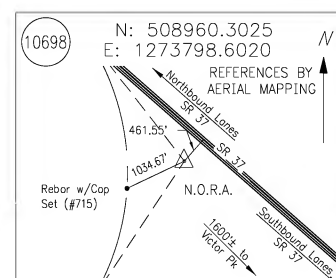
BRASS MONUMENT IN CONCRETE  
P.C. STA. 194+44.72 LINE "SR 37"



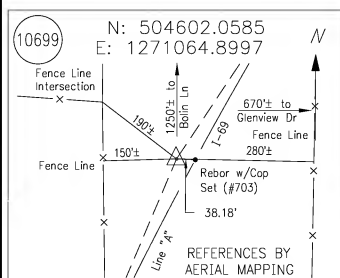
BRASS MONUMENT IN CONCRETE  
P.I. STA. 208+20.78 LINE "SR 37"



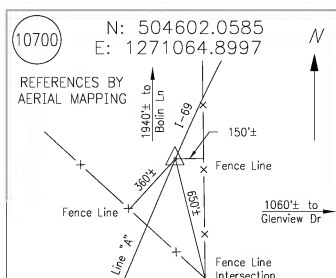
BRASS MONUMENT IN CONCRETE  
P.T. STA. 221+90.07 LINE "SR 37"



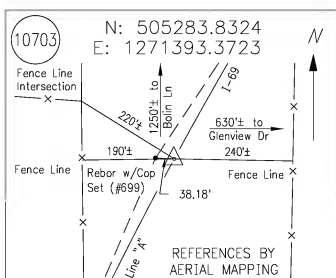
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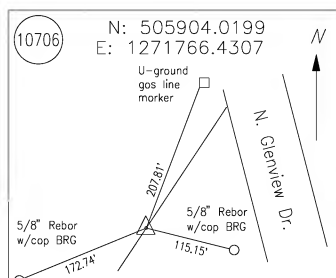
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P.I. STA. 1478+85.59 LINE "A"



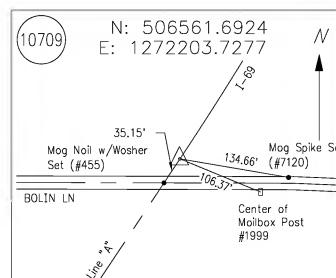
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P.C. STA. 1471+42.94 LINE "A"



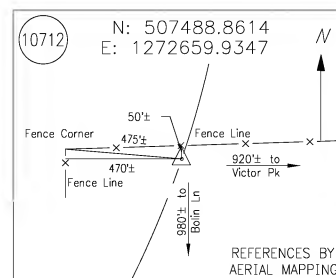
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P.O.C. STA. 1479+00.00 LINE "A"



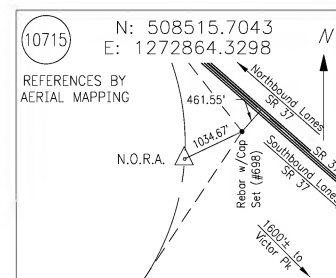
REBAR w/CAP SET  
P.T. STA. 1486+23.99 LINE "A"



REBAR w/CAP SET  
P.C. STA. 1494+13.78 LINE "A"



REBAR w/CAP SET  
P.O.C. STA. 1504+50.00 LINE "A"



REBAR w/CAP SET  
P.O.C. STA. 1515+00.00 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGNED: MDO DRAWN: BDM

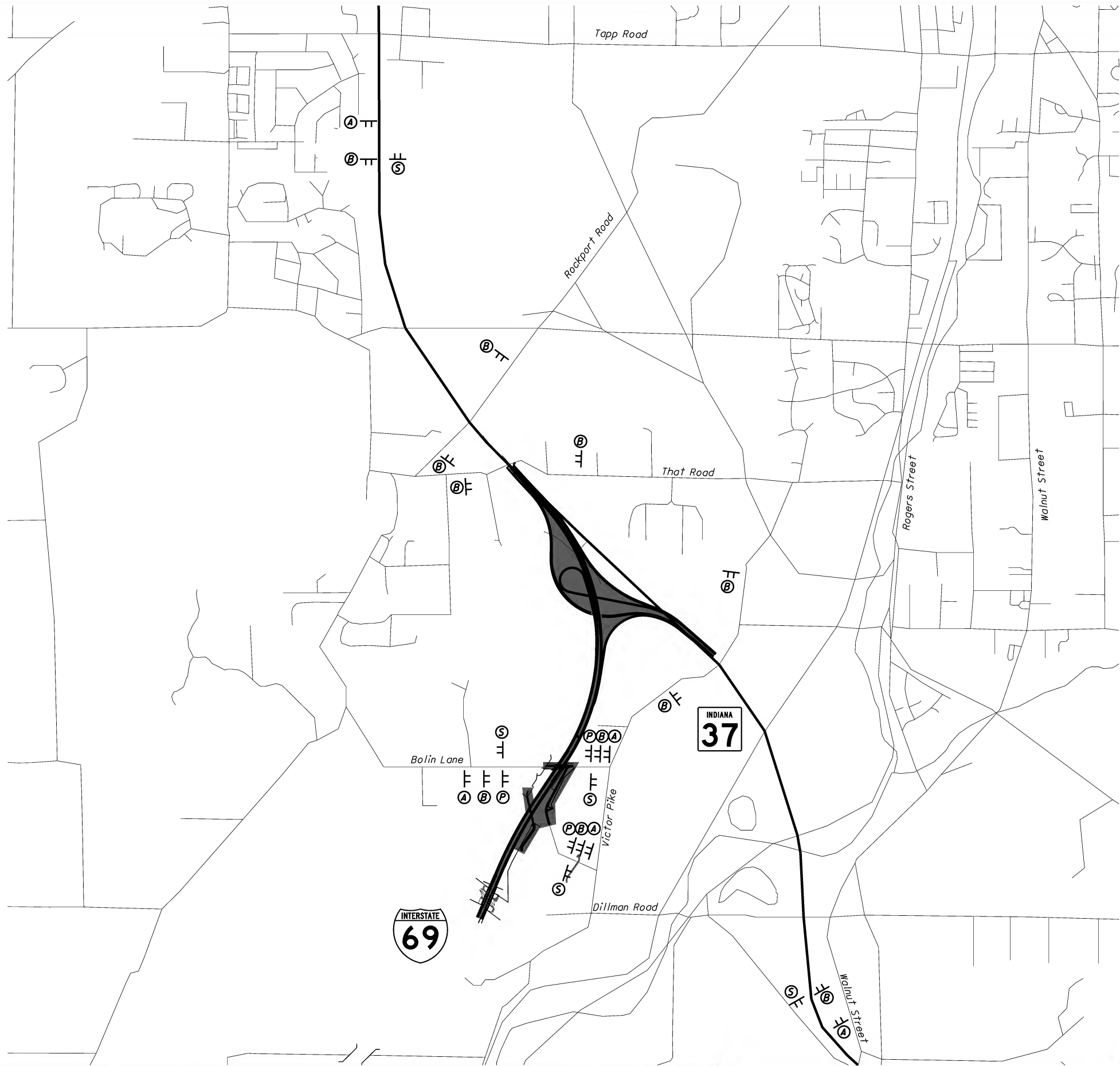
CHECKED: HCF CHECKED: MDO

DATE: 9/6/10

INDIANA  
DEPARTMENT OF TRANSPORTATION

BASELINE CONTROL REFERENCE  
AND BENCHMARK INFORMATION

HORIZONTAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	CP-01
CONTRACT	SHEETS
IR-33742	21 of 173
	PROJECT
	1006075



- GENERAL NOTES**
- Standards 801-TCLG-01 or as shown
  - Additional Signs for Flagging Operations  
Construction Sign, A, W20-7a-A (48"x48") Flagger  
Construction Sign, A, W20-4 (48"x48") One Lane Road Ahead
  - Additional Signs for Blasting if Req'd.  
Construction Sign, A, W22-1 (48"x48") Blasting Zone Ahead  
Construction Sign, A, W22-2 (42"x36") Turn Off 2-Way Radio and Cell Phone.  
Construction Sign, A, W22-3 (42"x36") End Blasting Zone
  - See Sheet 23 for Sign Details.

**LEGEND**

SPEEDING  
MAX \$1000  
RECKLESS DRIVING  
MAX 8 YRS

Ⓐ Construction Sign, C, XG20-7 (Worksite Penalty)(78"x42")

ROAD  
CONSTRUCTION  
AHEAD

Ⓑ Construction Sign, A, XW20-1 (Road Construction Ahead)(48"x48")

SHOULDER  
WORK

Ⓓ Construction Sign, A, XW21-5-A (Shoulder Work)

END  
ROAD WORK

Ⓔ Construction Sign, A, XG20-2 (End Constuction)(60"x24")

Area under construction

Direction of Traffic

Line and Prismatic Reflectors, Remove

Channelizing Device

Flashing Arrow Board

Temporary Traffic Barrier

③ TPM, White, 8 in.

④ TPM, Yellow, 8 in.

④⑩ TPM, White, 4 in.

④① TPM, Yellow, 4 in.

④⑤ TPM, Stop Line, 24 in.

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED  
FOR APPROVAL  
DESIGNED: MDO  
CHECKED: HCF

DESIGN ENGINEER  
DATE 9/6/10  
DRAWN: KCH  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

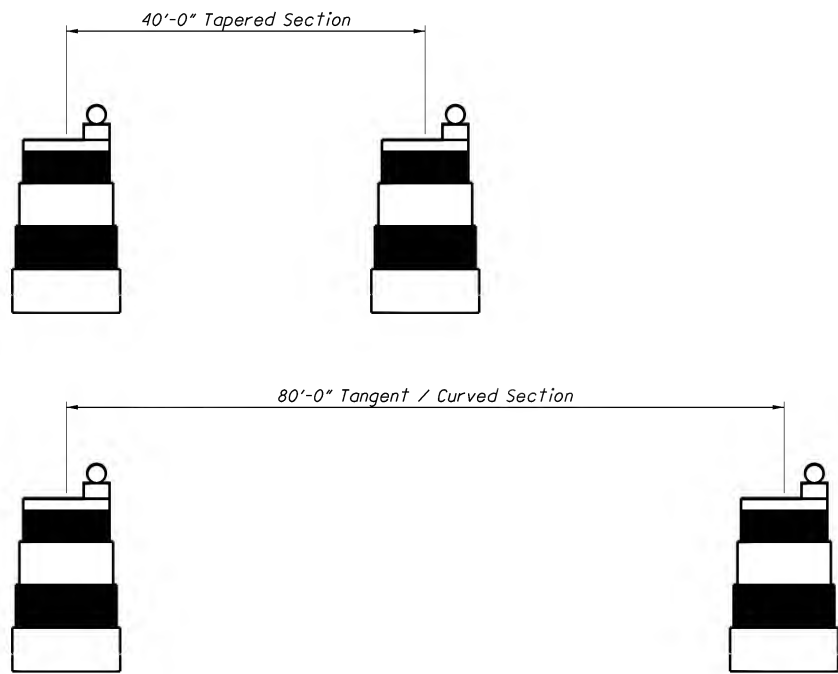
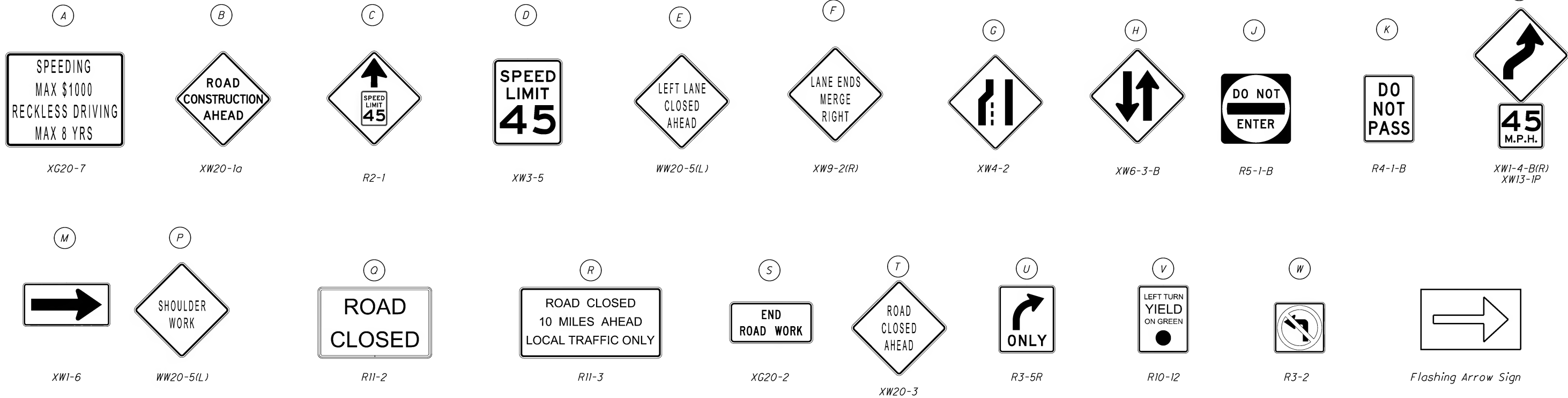
MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MS-01
CONTRACT	PROJECT
IR-33742	1006075

DATE: 10/17/2012  
TIME: 10:41:23 AM  
LOCATION: 1006075

09/25/12 - Miscellaneous revisions





CONSTRUCTION BARREL SPACING

Quantity for Maintenance of Traffic	Units	Phase 1	Phase 2	Phase 3	Phase 4	Pay Quantity
Construction Sign, Type A	EACH	16	59	59	16	59
Construction Sign, Type B	EACH	4	20	20	4	20
Temporary Worksite Speed Limit Sign Assembly	EACH	4	4	4	4	4
Barricade, III-A	LFT	--	288	288	--	288
Barricade, III-B	LFT	168	264	312	--	312
Temporary Traffic Barrier, Type 2	LFT	515	3,000	1925	--	3,000
Energy Absorbing Terminal, CZ, TL-2	EACH	4	6	6	--	6
Temporary Pavement Marking, Removable, 4 In.	LFT	--	28,472	30,684	--	59,156
Temporary Pipe, 15"	LFT	550	550	550	--	550
Safety Metal End Section, 4x1, 15"	EACH	4	4	4	--	4
Temporary Pavement Marking, Removable, 8 In.	LFT	--	2,000	2,000	--	4,000
Temporary Pavement Message Marking, Arrow	EACH	--	8	8	--	16
Temporary Pavement Marking, Removable, 24 In.	LFT	--	40	40	--	80
HMA, Surface, Type B	TON	446	--	--	--	446
HMA, Intermediate, Type B	TON	743	--	--	--	743
HMA, Base, Type B	TON	1,782	--	--	--	1,782
Asphalt for Track Coat	TON	2.8	--	--	--	2.8
Subgrade Treatment, Type 1C	SYS	5,398	--	--	--	5,398
Flashing Arrow Sign	DAYS	--	45	45	--	90
Traffic Signal Head, 1 way, 3 section, 12", Red, Amber, Green	EACH	4	4	4	--	4
Signal Cable, 5C/14	LFT	1,000	1,000	1,000	--	1,000
Maintaining Traffic	LS	--	--	--	--	1

DATE: 10/1/2012  
TIME: 10:41:25 AM  
LOCATION: 6100101



RECOMMENDED FOR APPROVAL: [Signature] 9/6/10  
DESIGN ENGINEER DATE

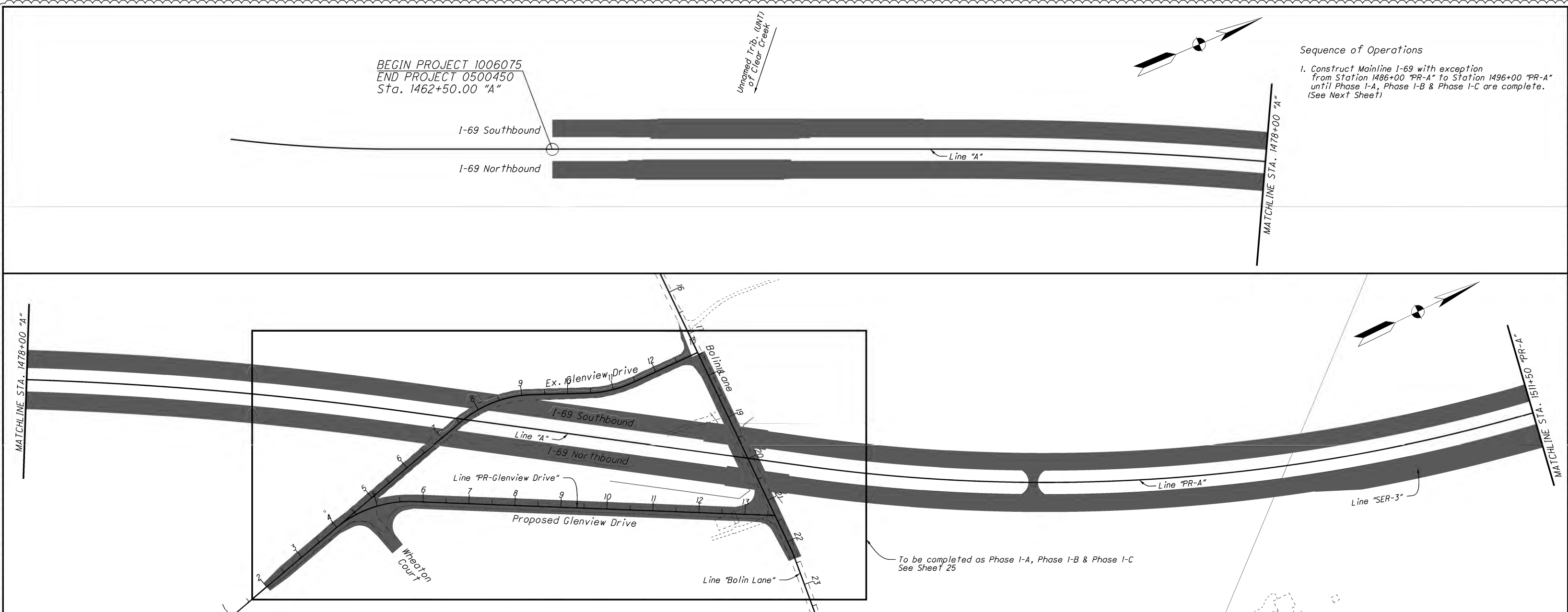
DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
SIGN DETAILS

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-02
CONTRACT IR-33742	SHEETS 23 of 173
	PROJECT 1006075

DATE: 10/17/2012  
TIME: 10:41:26 AM  
LOCATION: I-69 SOUTHBOUND / WHEATON COURT / BOLIN LANE / GLENVIEW DRIVE



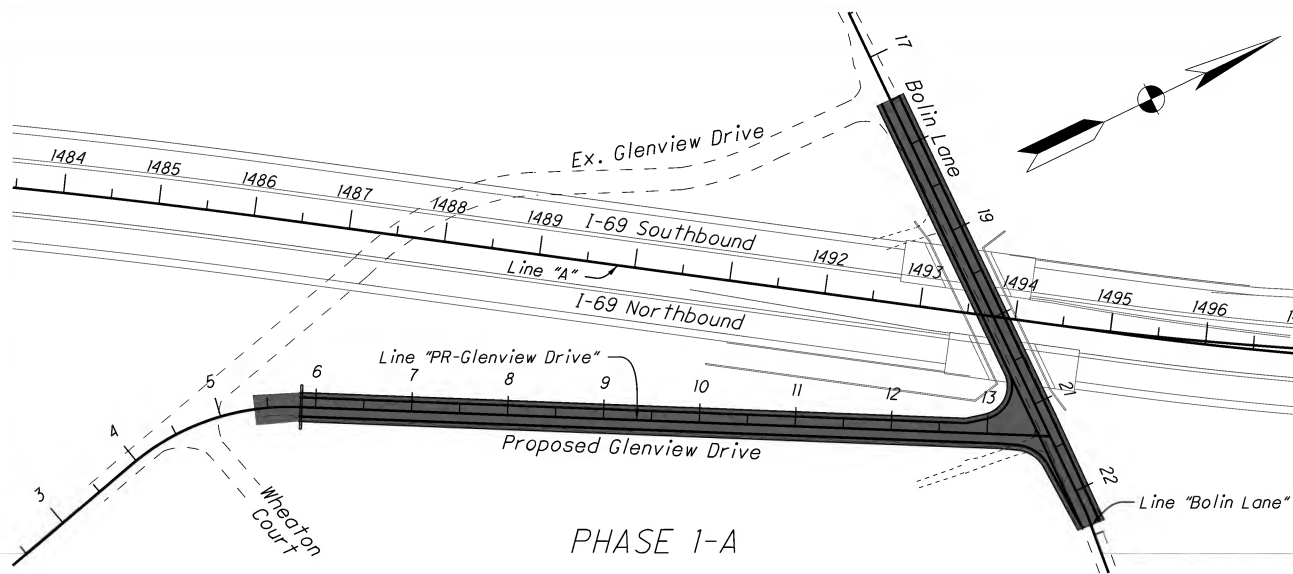
Area under construction

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

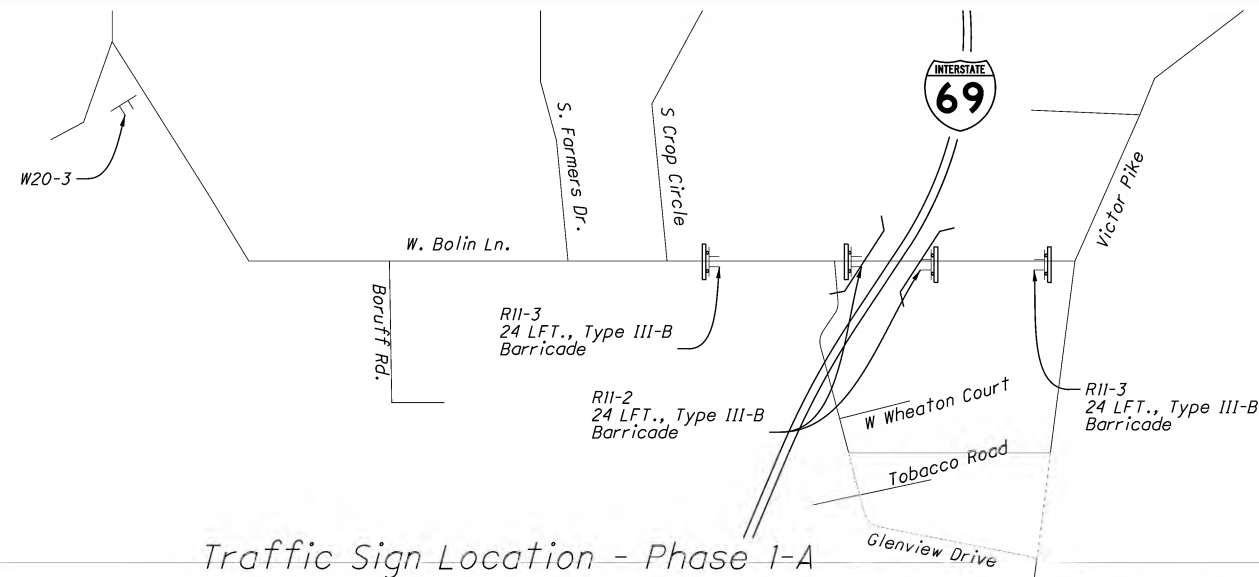
RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10  
DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
MAINTENANCE OF TRAFFIC  
PHASE 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-03
CONTRACT IR-33742	SHEETS 24 of 173
	PROJECT 1006075

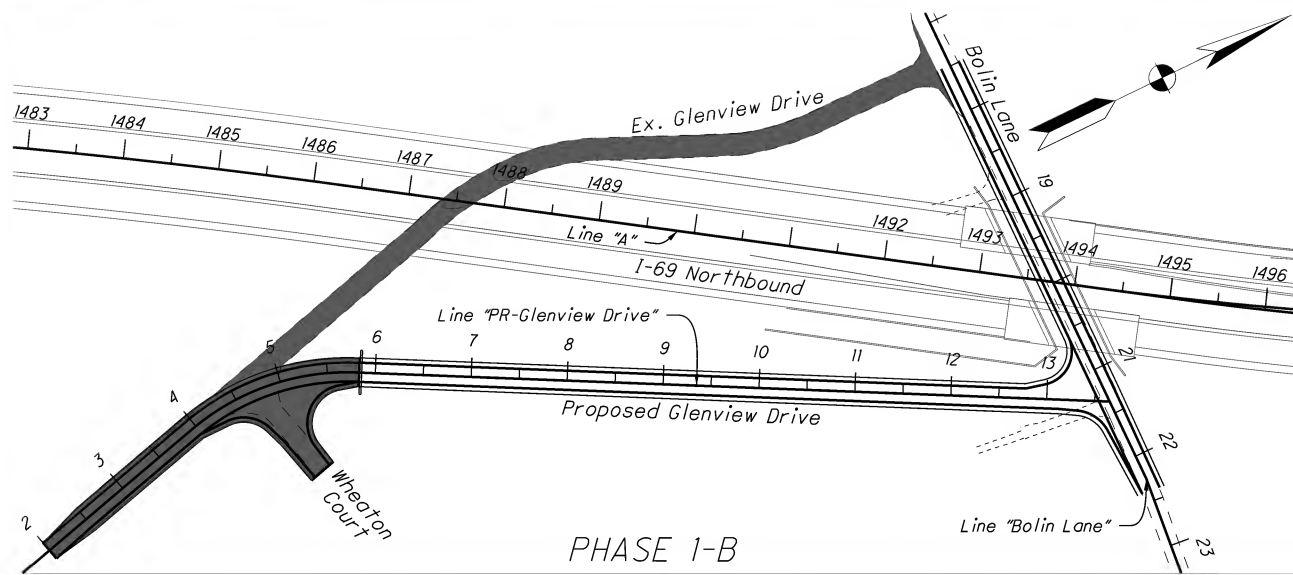


PHASE 1-A

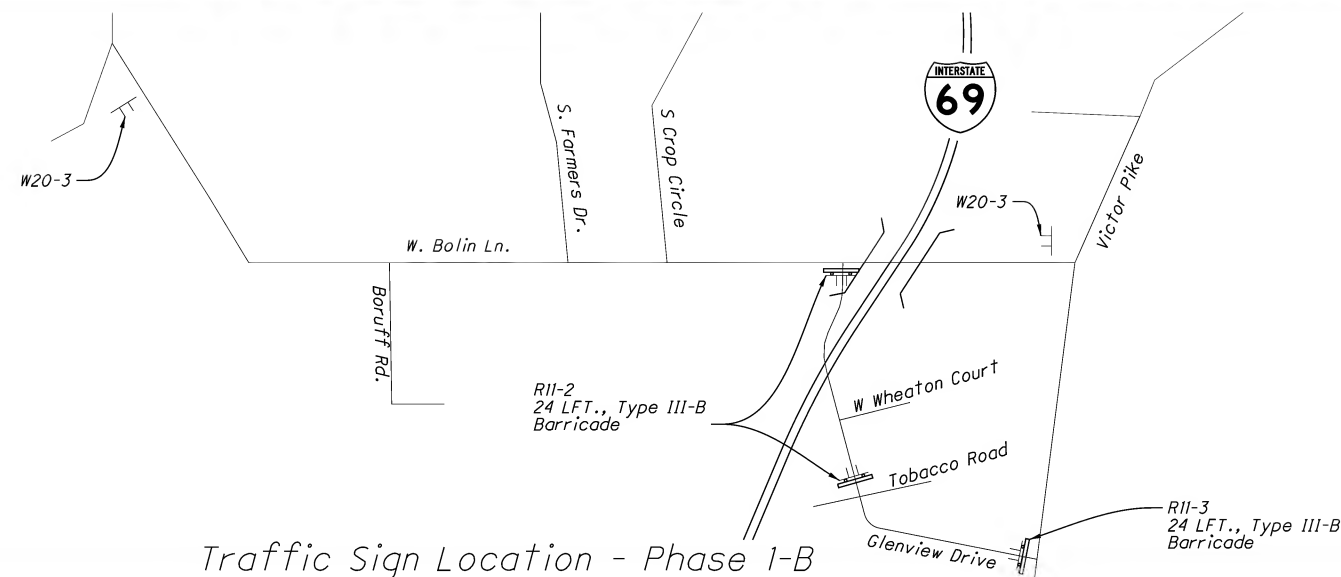


Traffic Sign Location - Phase 1-A

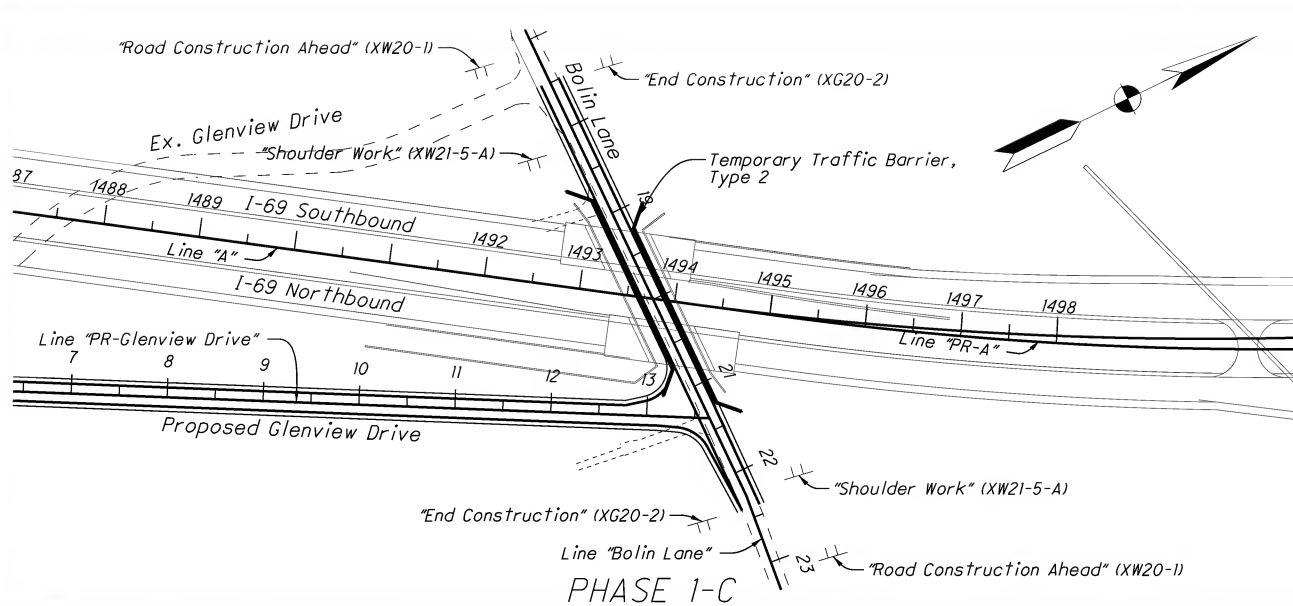
- Sequence of Operations
1. Construct Mainline I-69 with exception from Station 1486+00 "A" to Station 1496+00 "PR-A" until Phase 1-A, Phase 1-B & Phase 1-C are complete.
  2. Phase 1-A - Construct Bolin Lane and relocated Glenview Drive as shown below. Existing Glenview Drive shall remain operable.
  3. Phase 1-B - Complete Phase 1-A, open Bolin Lane, close and remove existing Glenview Drive, complete connection of Glenview Drive to proposed section. Wheaton Court to be Staged Construction.
  4. Phase 1-C - Install Signage and Temporary Traffic Barrier, Type 2 along Bolin as shown.



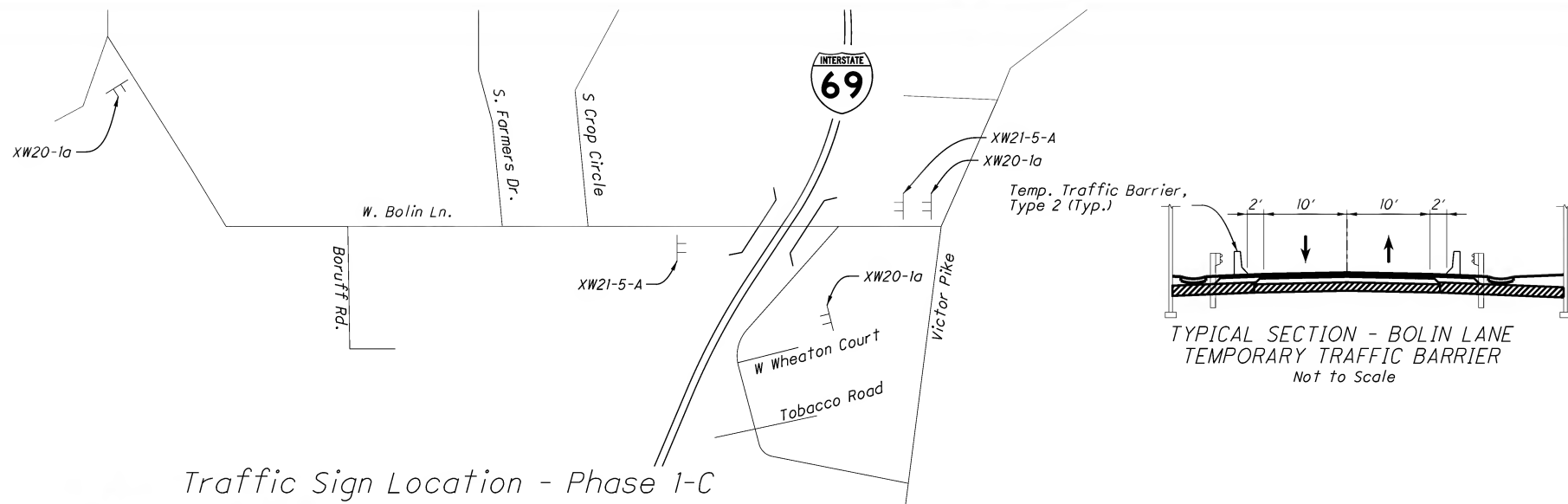
PHASE 1-B



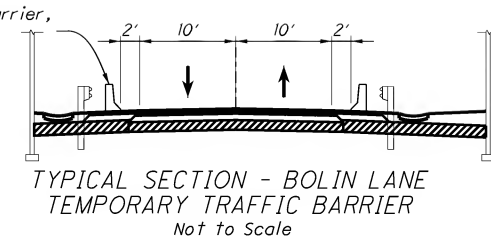
Traffic Sign Location - Phase 1-B



PHASE 1-C



Traffic Sign Location - Phase 1-C



Area under construction



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

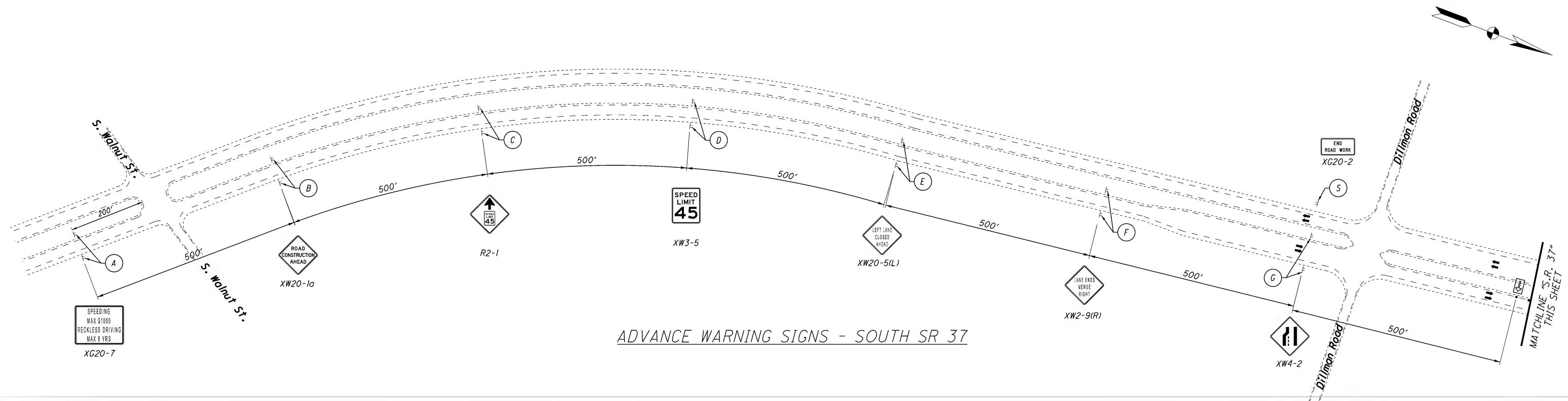
DESIGNED: MDO  
CHECKED: HCF  
DRAWN: KCH  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

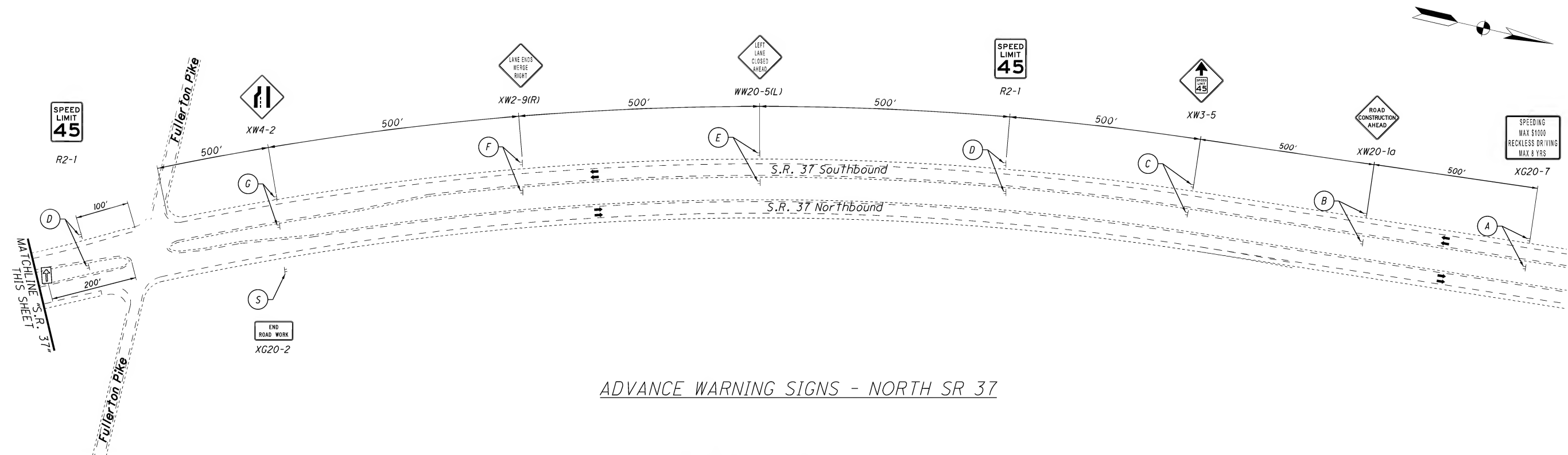
MAINTENANCE OF TRAFFIC  
PHASE 1-A, PHASE 1-B, & PHASE 1-C

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-04
CONTRACT IR-33742	SHEETS 25 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:28 AM  
LOCATION: 1006075



ADVANCE WARNING SIGNS - SOUTH SR 37



ADVANCE WARNING SIGNS - NORTH SR 37

DATE: 10/1/2012  
TIME: 10:41:29 AM  
LOCATION: SR 37, 100' S. OF FULLER-TON PIKE



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10 DATE  
DESIGN ENGINEER






DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

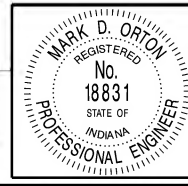
INDIANA  
DEPARTMENT OF TRANSPORTATION


MAINTENANCE OF TRAFFIC  
ADVANCE WARNING SIGNS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MS-05
CONTRACT	PROJECT
IR-33742	1006075

DATE: 10/17/2012  
TIME: 10:41:30 AM  
DRAWN BY: KCH  
CHECKED BY: HCF

	Area under construction
	Existing Traffic Signal Head
	Temporary Traffic Signal Head
	Bagged Signal Head
	165 lb/yd <sup>2</sup> HMA, Type B, Surface, on 275 lb/yd <sup>2</sup> HMA, Type B, Intermediate, on 660 lb/yd <sup>2</sup> HMA, Type B, Base, on Subgrade Treatment (Type 1C)

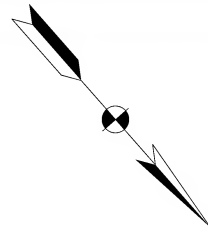
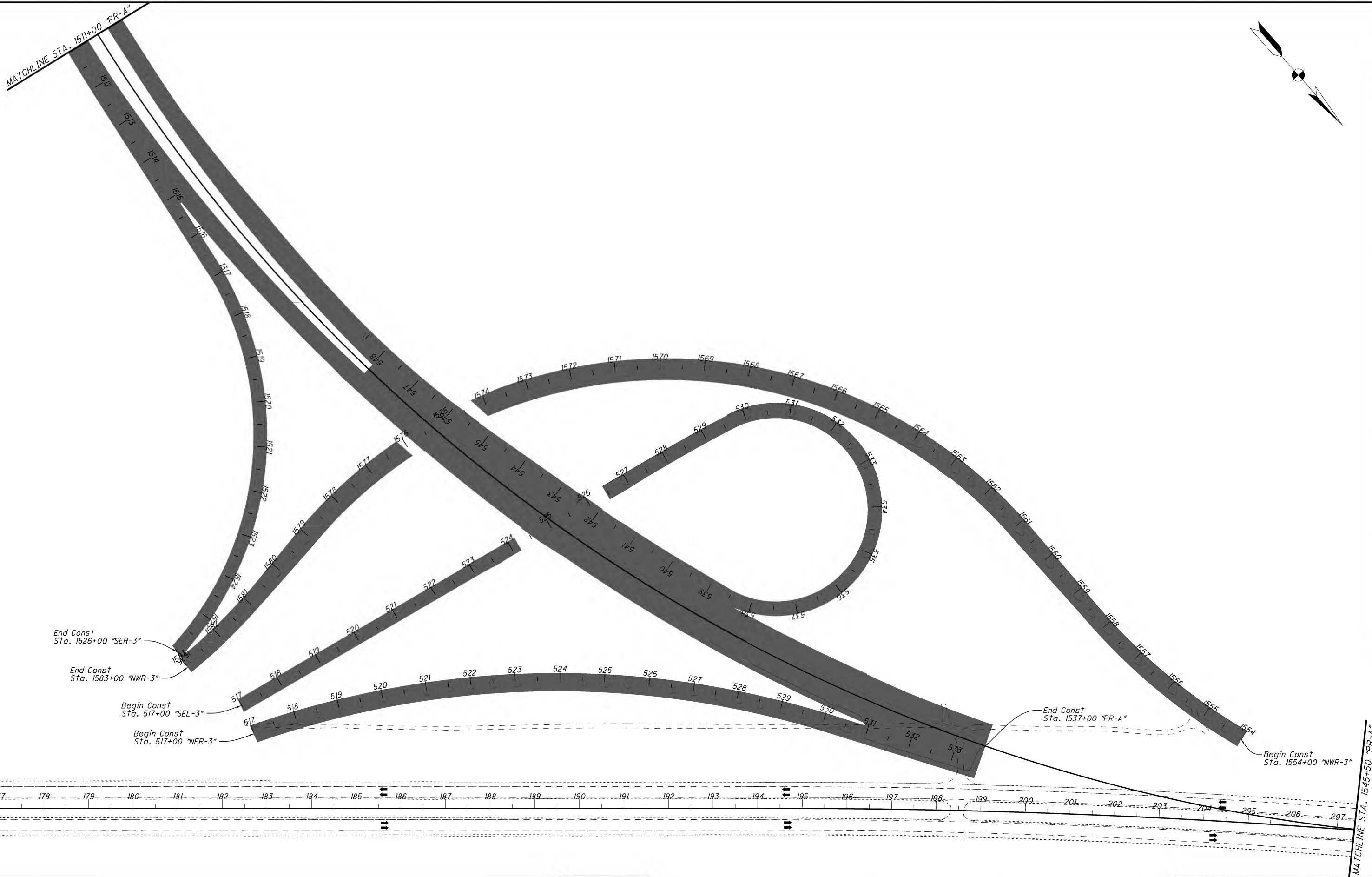


RECOMMENDED FOR APPROVAL	
 DESIGN ENGINEER DATE 9/6/10	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-06
CONTRACT IR-33742	SHEETS 27 of 173
	PROJECT 1006075





MATCHLINE STA. 174+50 "SR 37"

MATCHLINE STA. 1545+50 "PR-A"

Area under construction

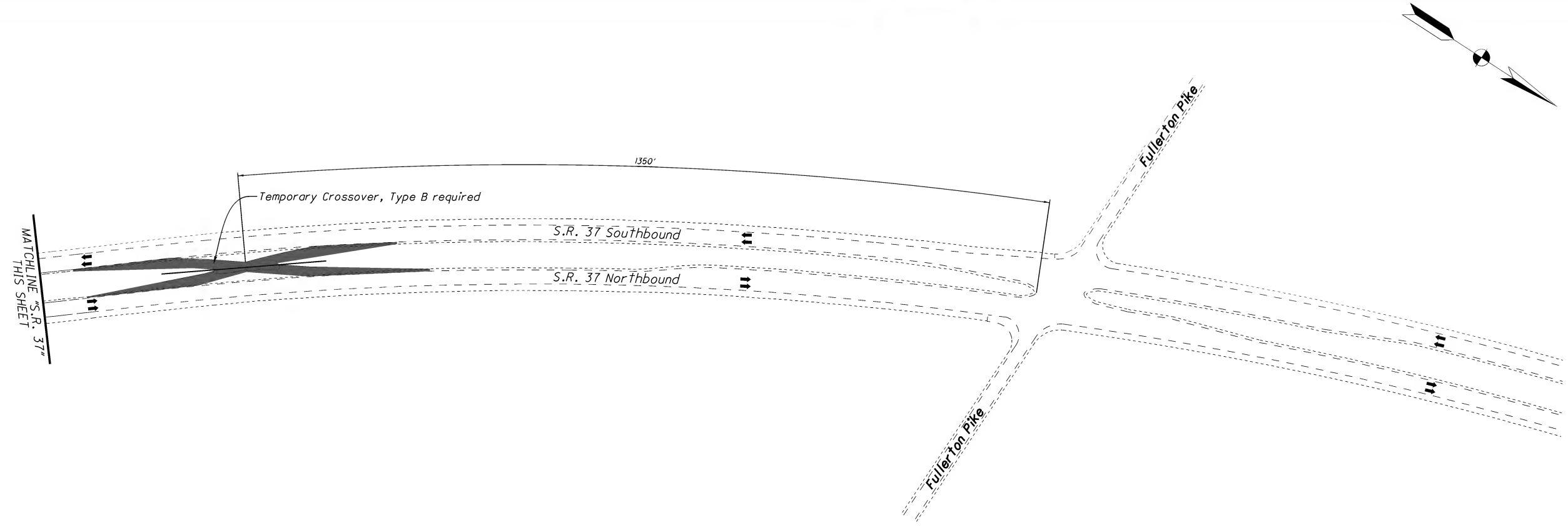
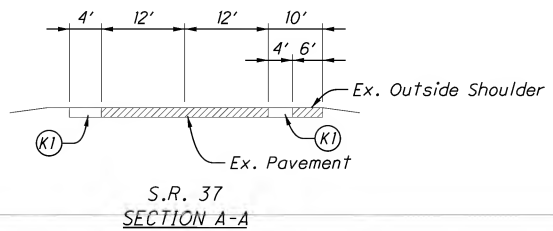
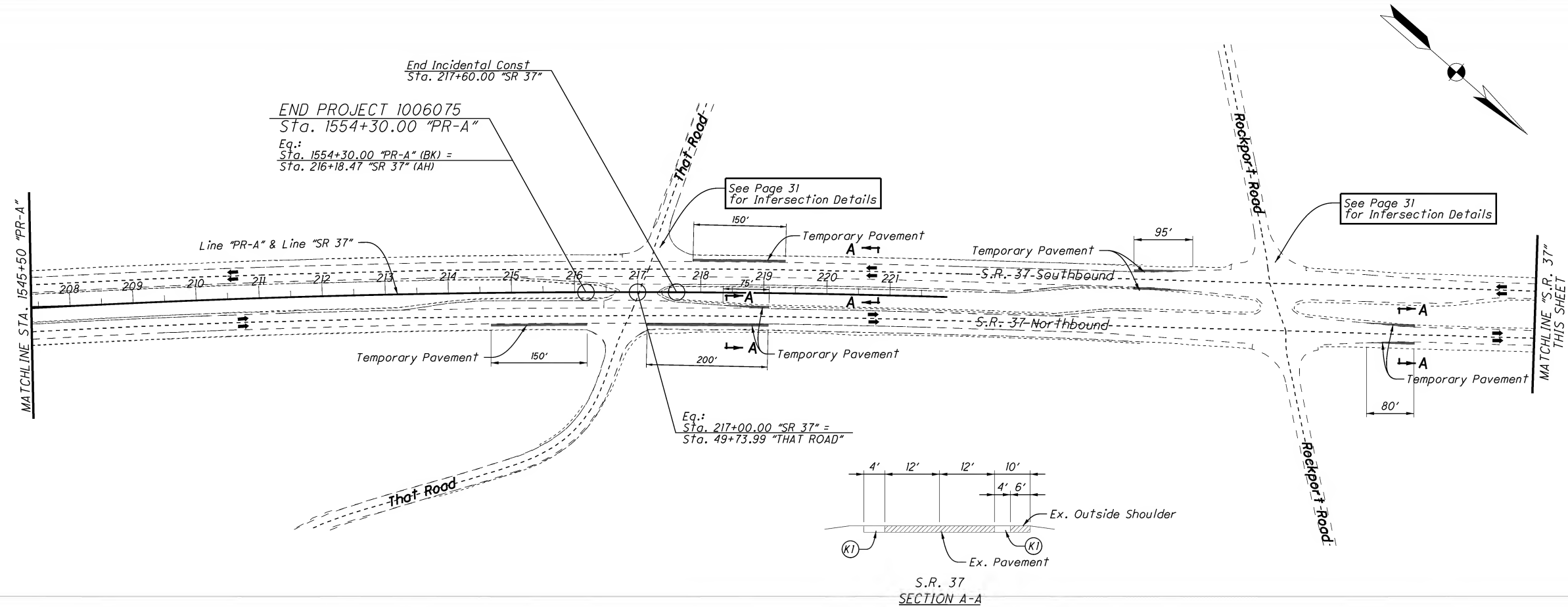


RECOMMENDED FOR APPROVAL	<i>M. D. Orton</i>	DATE	9/6/10
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
MAINTENANCE OF TRAFFIC  
PHASE 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-07
CONTRACT IR-33742	SHEETS 28 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:31 AM  
LOCATION: 1006075



Area under construction

(K1) 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on  
275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on  
660 lb/yd<sup>2</sup> HMA, Type B, Base, on  
Subgrade Treatment (Type IC)

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

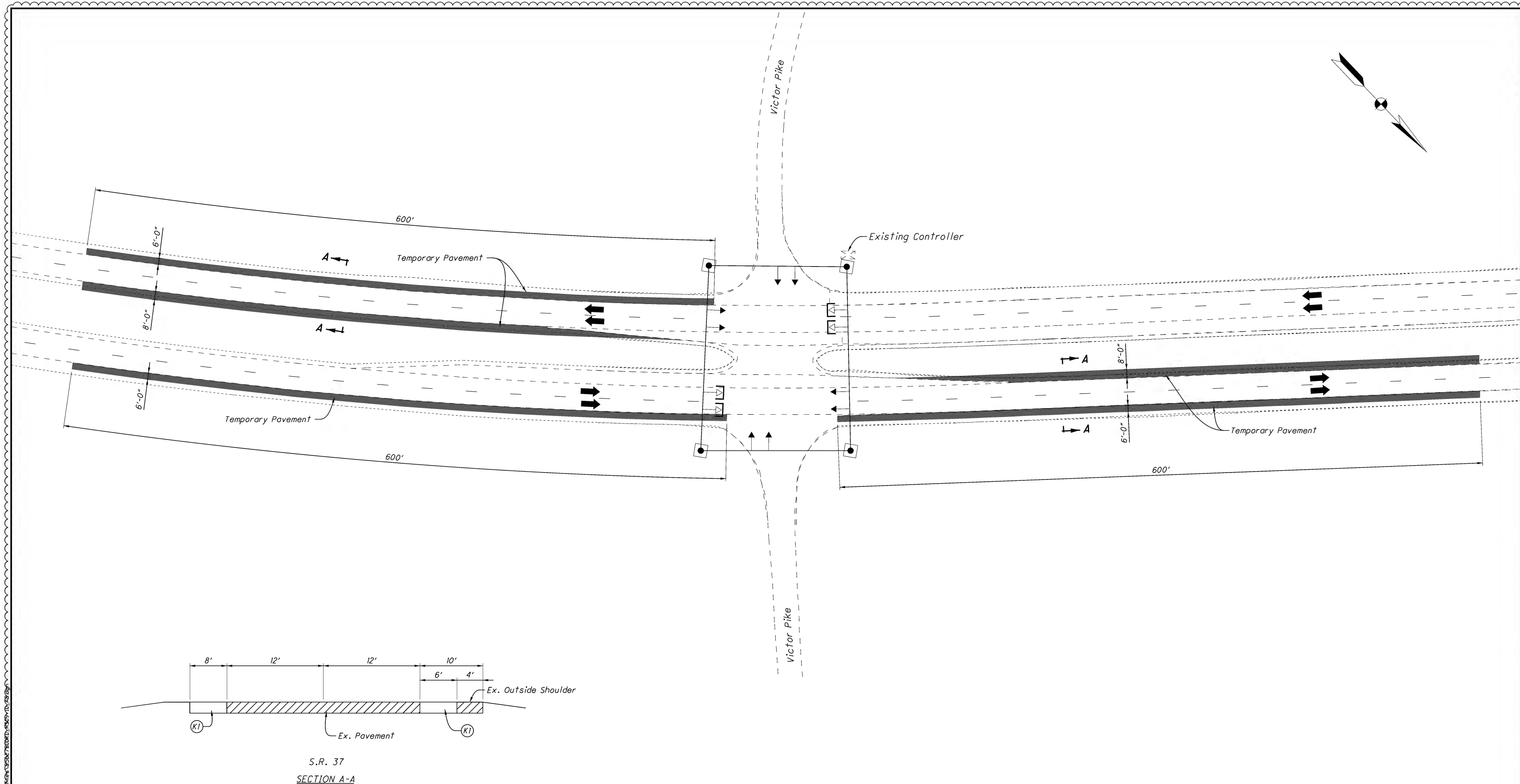
INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-08
CONTRACT IR-33742	SHEETS 29 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:32 AM  
LOCATION: C:\Users\morton\Documents\1006075\1006075.dwg

DATE: 10/1/2012  
TIME: 10:41:33 AM  
LOCATION: 1006075



NOTE:  
Install Temporary Traffic Signal Head  
no sooner than 5 days before activation.

Area under construction

Existing Traffic Signal Head

Temporary Traffic Signal Head

Bagged Signal Head

(K1) 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on

275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on

660 lb/yd<sup>2</sup> HMA, Type B, Base, on

Subgrade Treatment (Type IC)

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

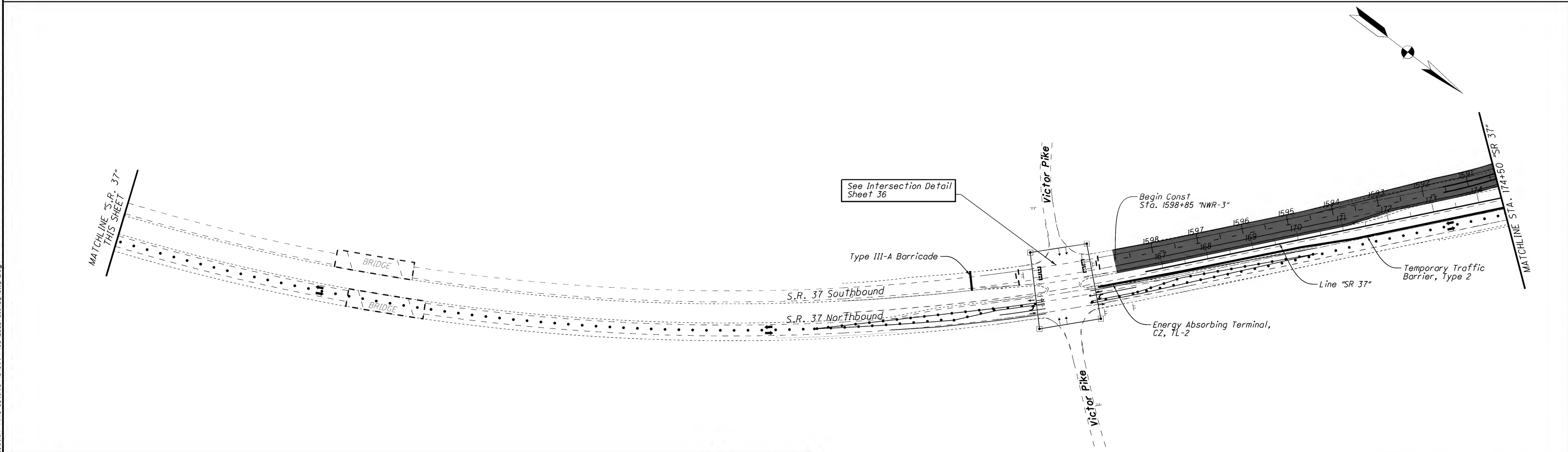
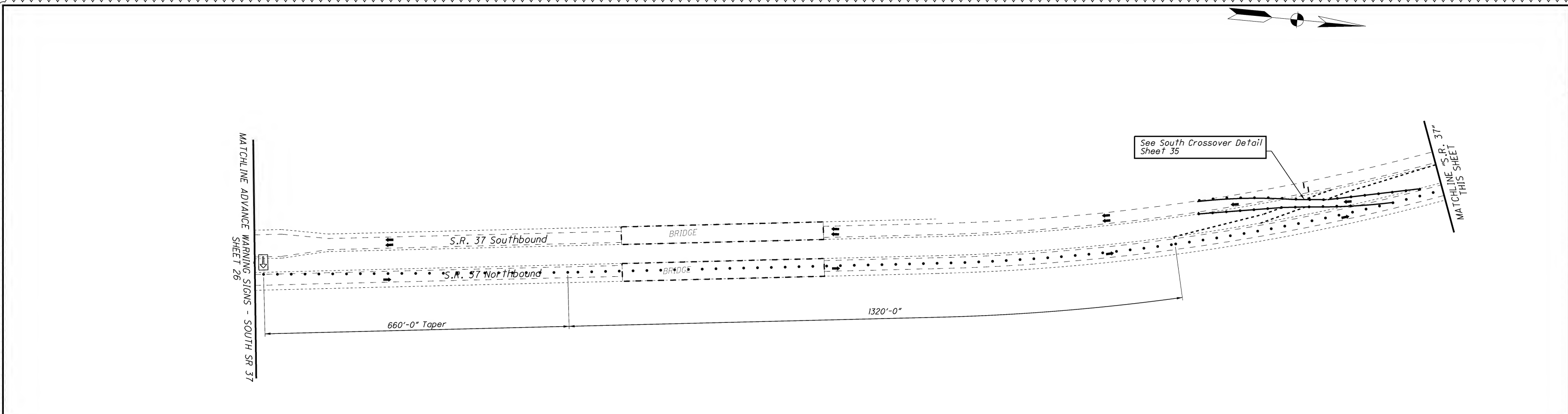
MAINTENANCE OF TRAFFIC  
PHASE 1 - INTERSECTION DETAILS

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-09
CONTRACT IR-33742	SHEETS 30 of 173
	PROJECT 1006075

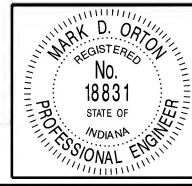


DATE: 10/1/2012  
TIME: 10:41:35 AM  
LOCATION: SR 37+50

REVISIONS: 01 - Initial Design  
02 - Final Design  
03 - Construction



	Area under construction		Flexible Tubular Markers (50' Spa.)
	Existing Traffic Signal Head		Flashing Arrow Board
	Temporary Traffic Signal Head		
	Bagged Signal Head		



RECOMMENDED FOR APPROVAL		DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

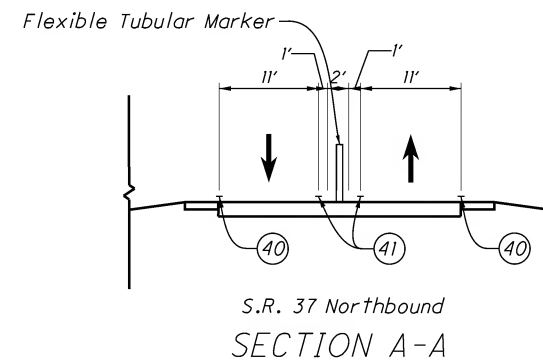
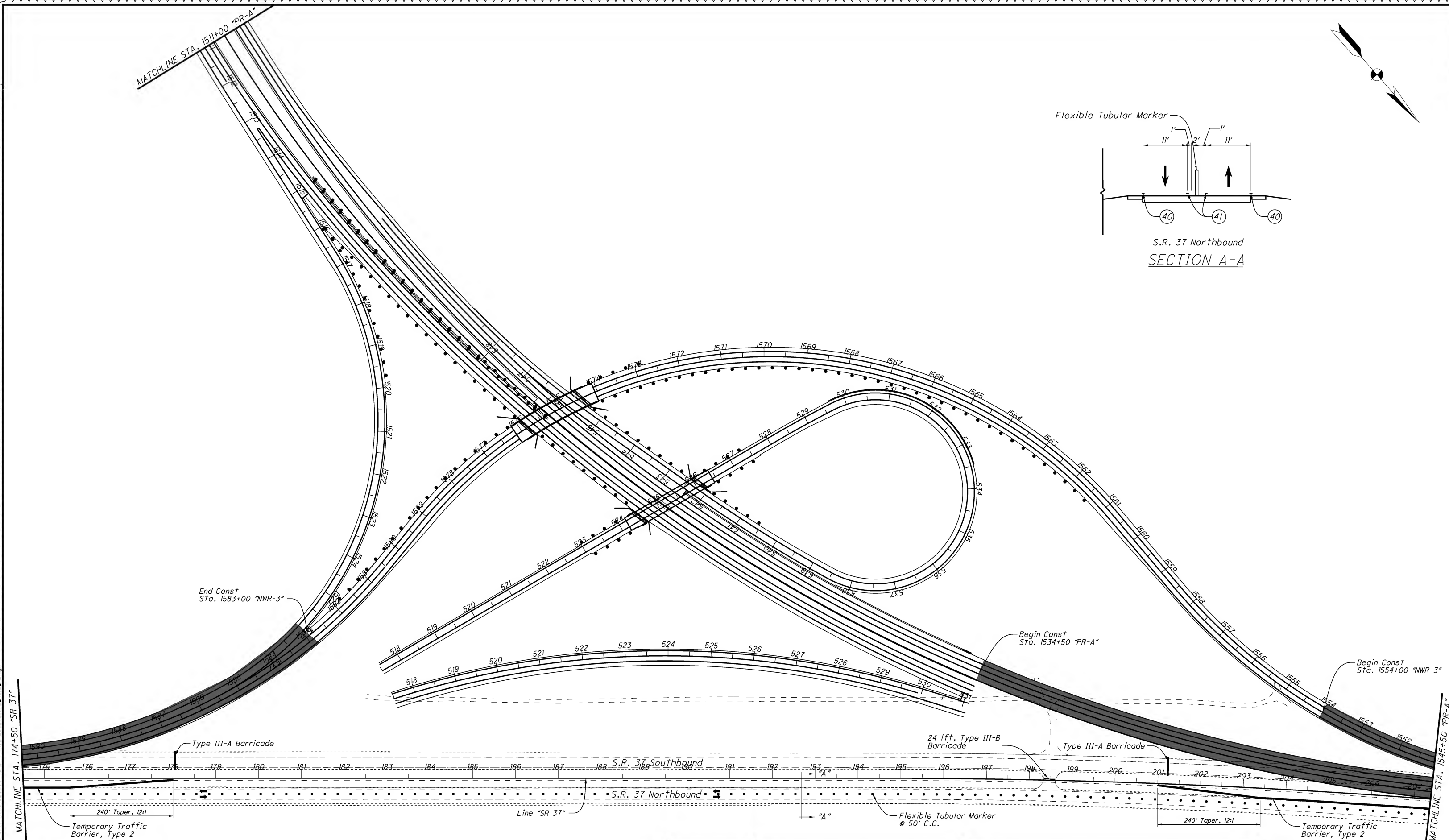
INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 2

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-II
CONTRACT IR-33742	SHEETS 32 of 173
	PROJECT 1006075



DATE: 10/17/2012  
TIME: 10:41:36 AM  
LOCATION: SR 37 NORTHBOUND

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Area under construction

Flexible Tubular Markers (50' Spa.)

④ TPM, White, 4 in.

④ TPM, Yellow, 4 in.

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

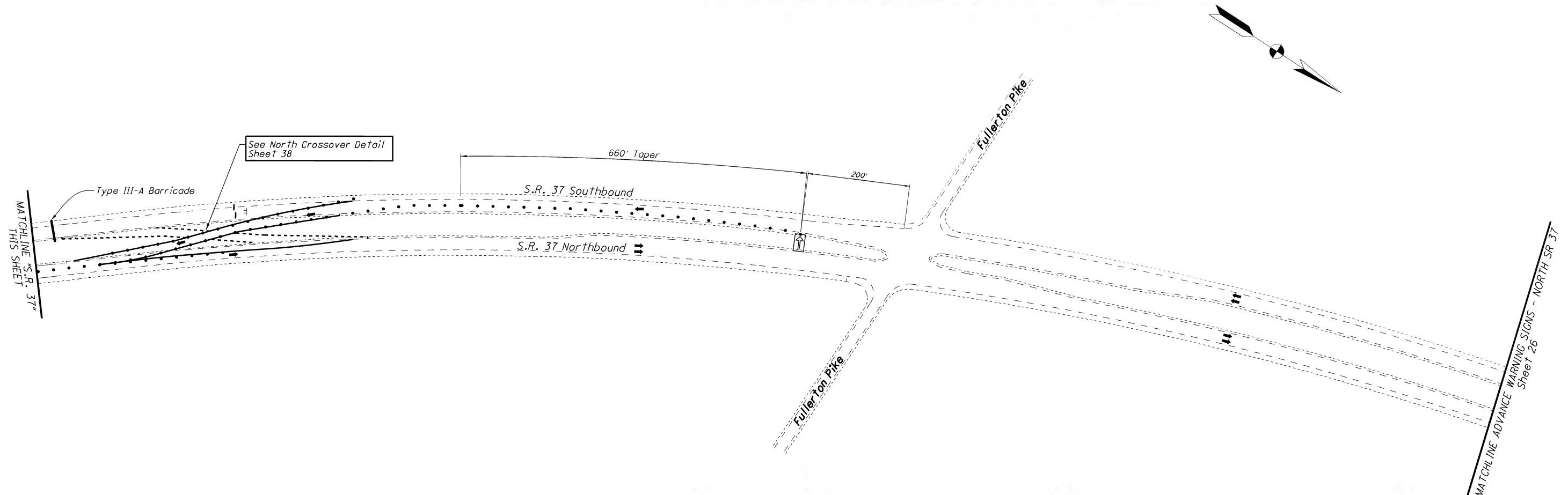
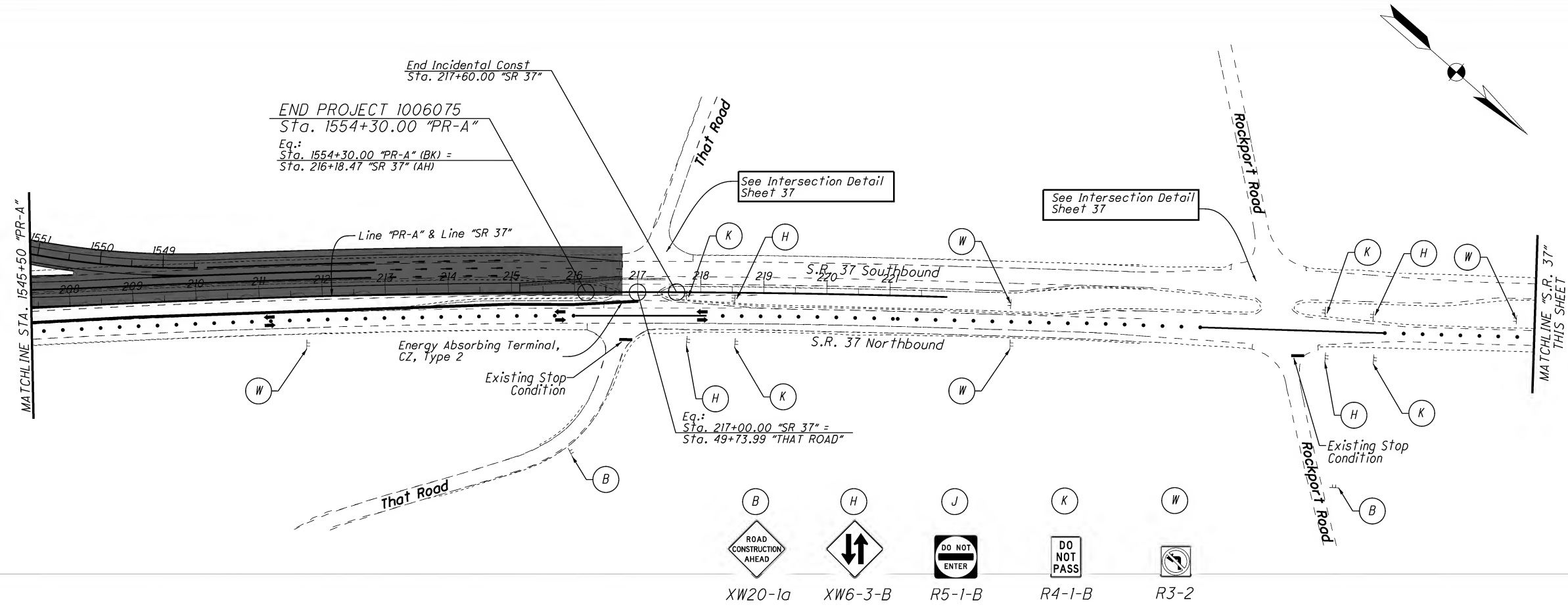
DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

DATE: 9/6/10

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-12
CONTRACT IR-33742	SHEETS 33 of 173
	PROJECT 1006075



Area under construction

Flexible Tubular Markers (50' Spa.)

Flashing Arrow Board

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

DESIGNED: MDO DRAWN: KCH

CHECKED: HCF CHECKED: MDO

DATE: 9/6/10

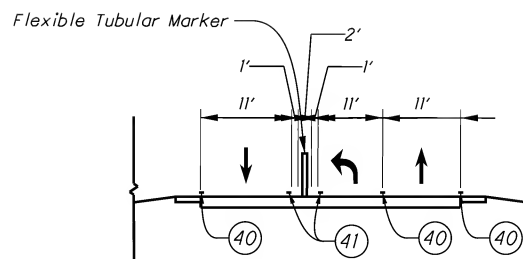
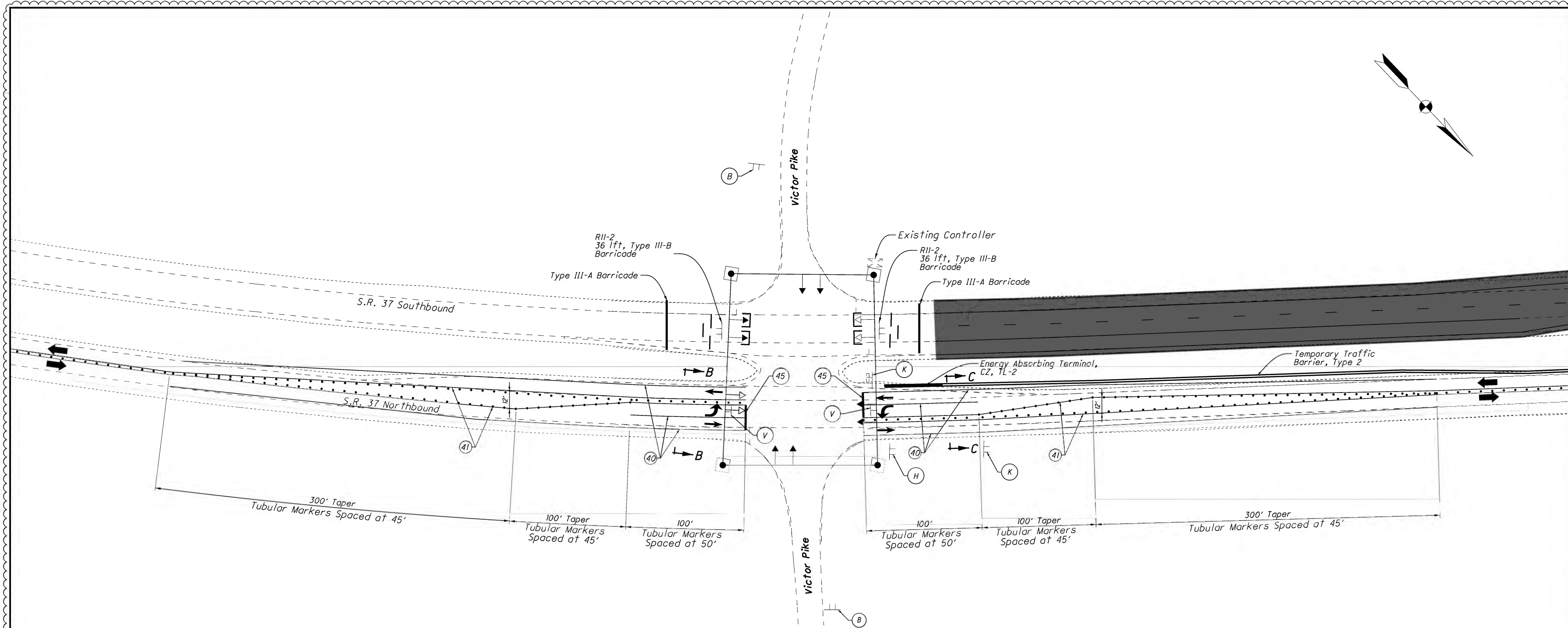
INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2

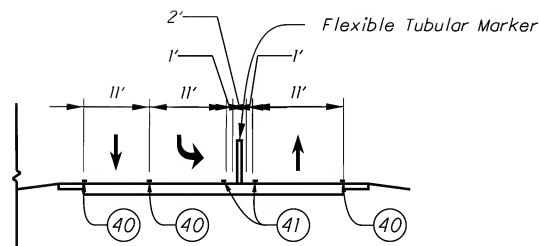
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-13
CONTRACT IR-33742	SHEETS 34 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:37 AM  
LOCATION: SR 37





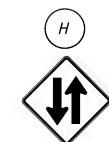
S.R. 37 Northbound  
SECTION B-B



S.R. 37 Northbound  
SECTION C-C



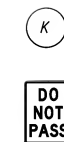
XW20-1a



XW6-3-B



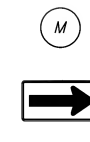
R5-1-B



R4-1-B



XW1-4-B(R)  
XW13-IP



XW1-6



R10-12

DATE: 10/17/2012  
TIME: 10:41:39 AM  
DRAWN BY: MDO

Area under construction

Existing Traffic Signal Head

Temporary Traffic Signal Head

Bagged Signal Head

- ③ Temp. Pavement Marking, Removable, 8 in., White
- ④ Temp. Pavement Marking, Removable, 8 in., Yellow
- ④① Temp. Pavement Marking, Removable, 4 in., White
- ④① Temp. Pavement Marking, Removable, 4 in., Yellow
- ④⑤ Temp. Pavement Marking, Removable, 24 in., White
- ➔ Direction of Traffic

• • • Flexible Tubular Markers (50' Spa.)



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE: 9/6/10

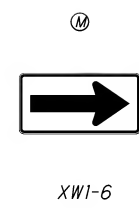
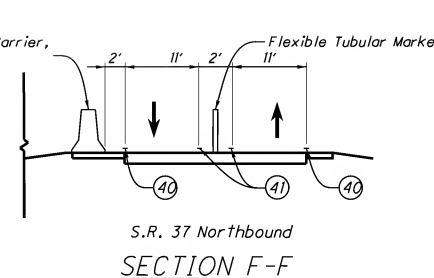
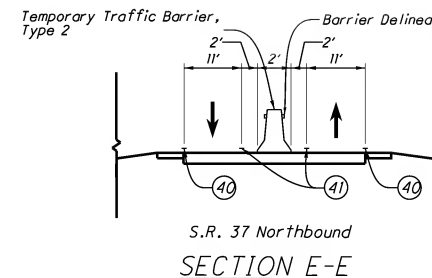
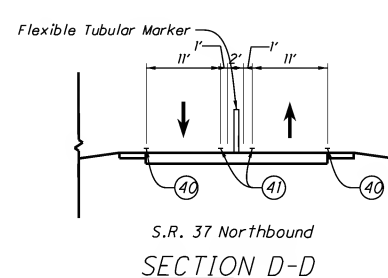
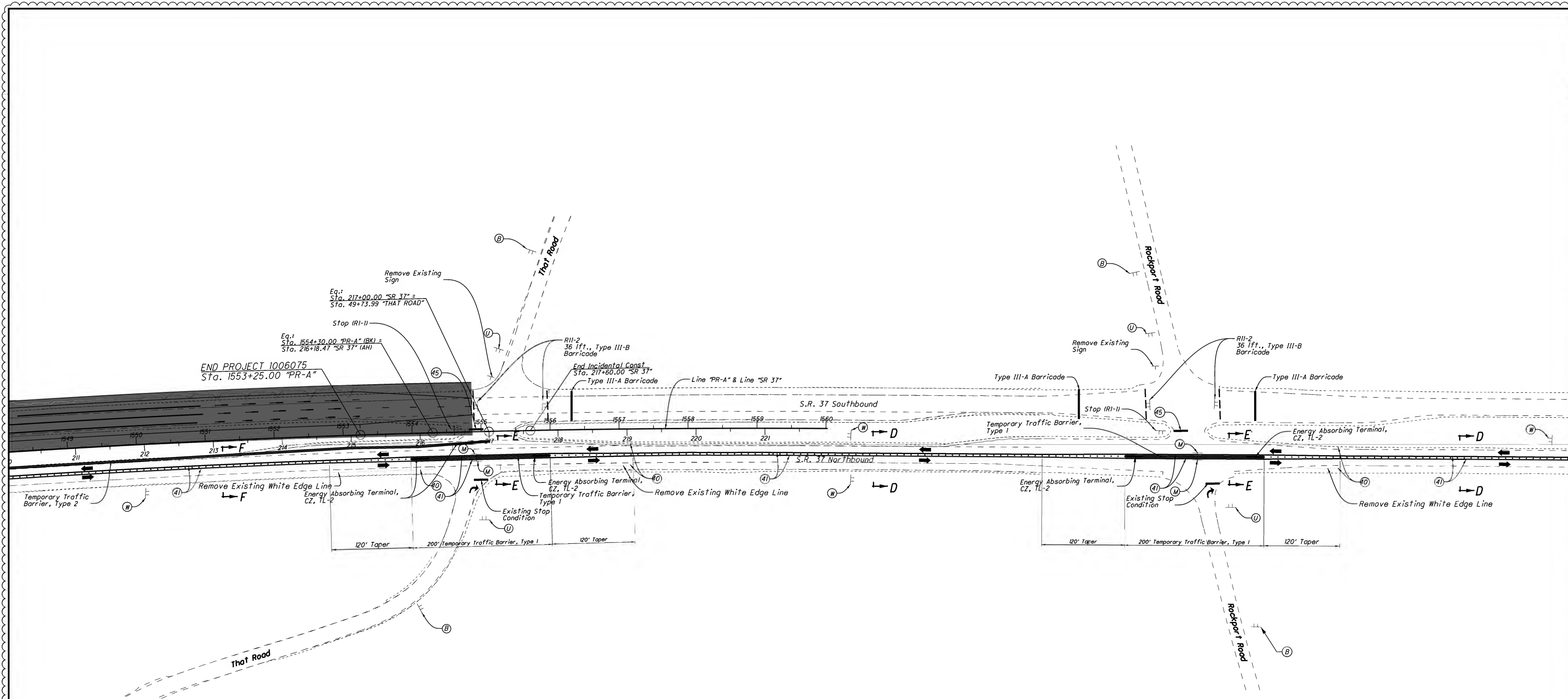
DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2 - INTERSECTION DETAILS

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-15
CONTRACT IR-33742	SHEETS 36 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:40 AM  
LOCATION: 1006075



	Area under construction		Flexible Tubular Markers (50' Spa.)
(40)	Temp. Pavement Marking, Removable, 4 in., White		
(41)	Temp. Pavement Marking, Removable, 4 in., Yellow		
(45)	Temp. Pavement Marking, Removable, 24 in., White		
	Direction of Traffic		

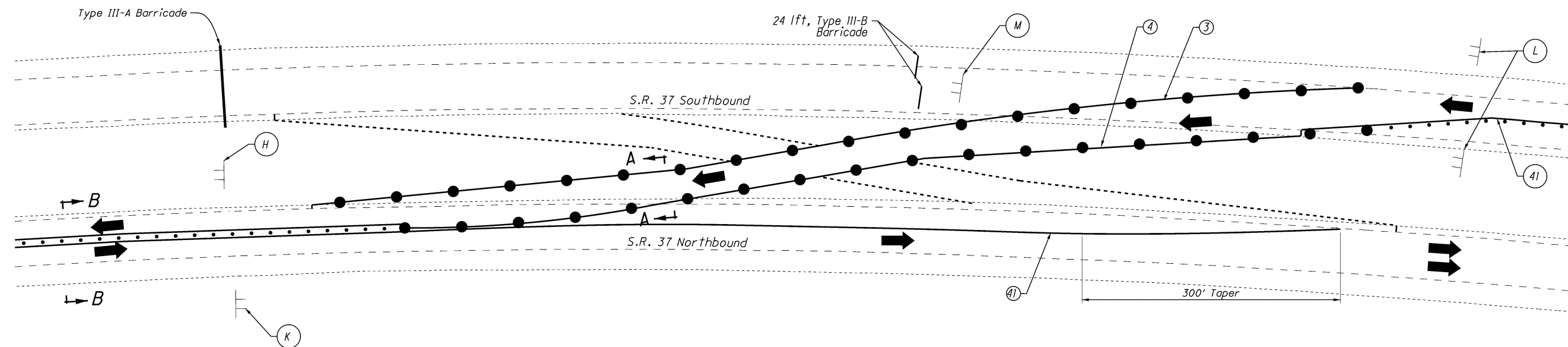


RECOMMENDED FOR APPROVAL		DATE	9/6/10
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

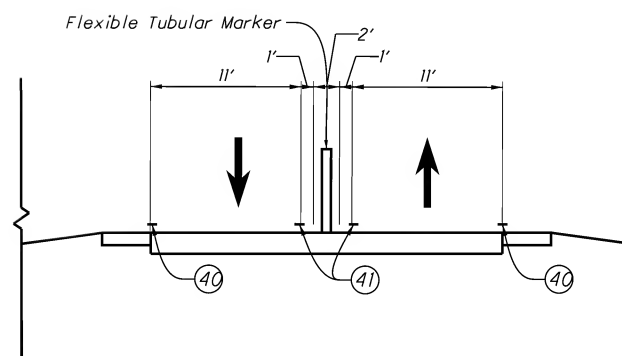
INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 2 - INTERSECTION DETAILS

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-16
CONTRACT IR-33742	SHEETS 37 of 173
	PROJECT 1006075

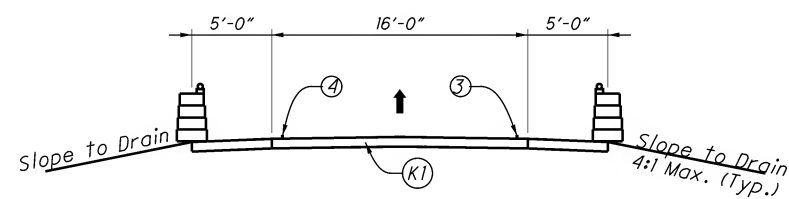




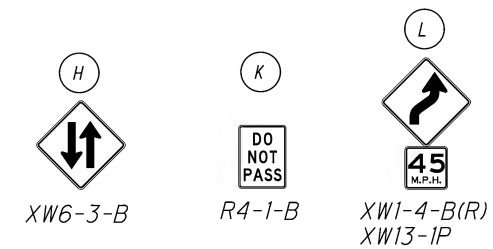
NORTH TEMPORARY CROSSOVER DETAIL



SECTION B-B



SECTION "A-A"



- ③ Temp. Pavement Marking, Removable, 8 in., White
- ④ Temp. Pavement Marking, Removable, 8 in., Yellow
- ④① Temp. Pavement Marking, Removable, 4 in., White
- ④① Temp. Pavement Marking, Removable, 4 in., Yellow
- ④⑤ Temp. Pavement Marking, Removable, 24 in., White
- ➡ Direction of Traffic
- • • Flexible Tubular Markers (50' Spa.)
- Construction Barrel
- (K1) 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on 275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on 660 lb/yd<sup>2</sup> HMA, Type B, Base, on Subgrade Treatment (Type IC)



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2 - CROSSOVER DETAILS

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-17
CONTRACT IR-33742	SHEETS 38 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:41 AM  
LOCATION: 1006075

DATE: 10/1/2012  
TIME: 11:42:16 AM  
LOCATION: SR 37

Area under construction

Existing Traffic Signal Head

Temporary Traffic Signal Head

Bagged Signal Head

Flexible Tubular Markers (50' Spa.)

Flashing Arrow Board

MARK D. ORTON

REGISTERED

No. 18831

STATE OF INDIANA

PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

9/6/10

DATE

DESIGNED: MDO

DRAWN: KCH

CHECKED: HCF

CHECKED: MDO

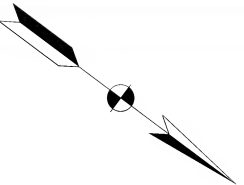
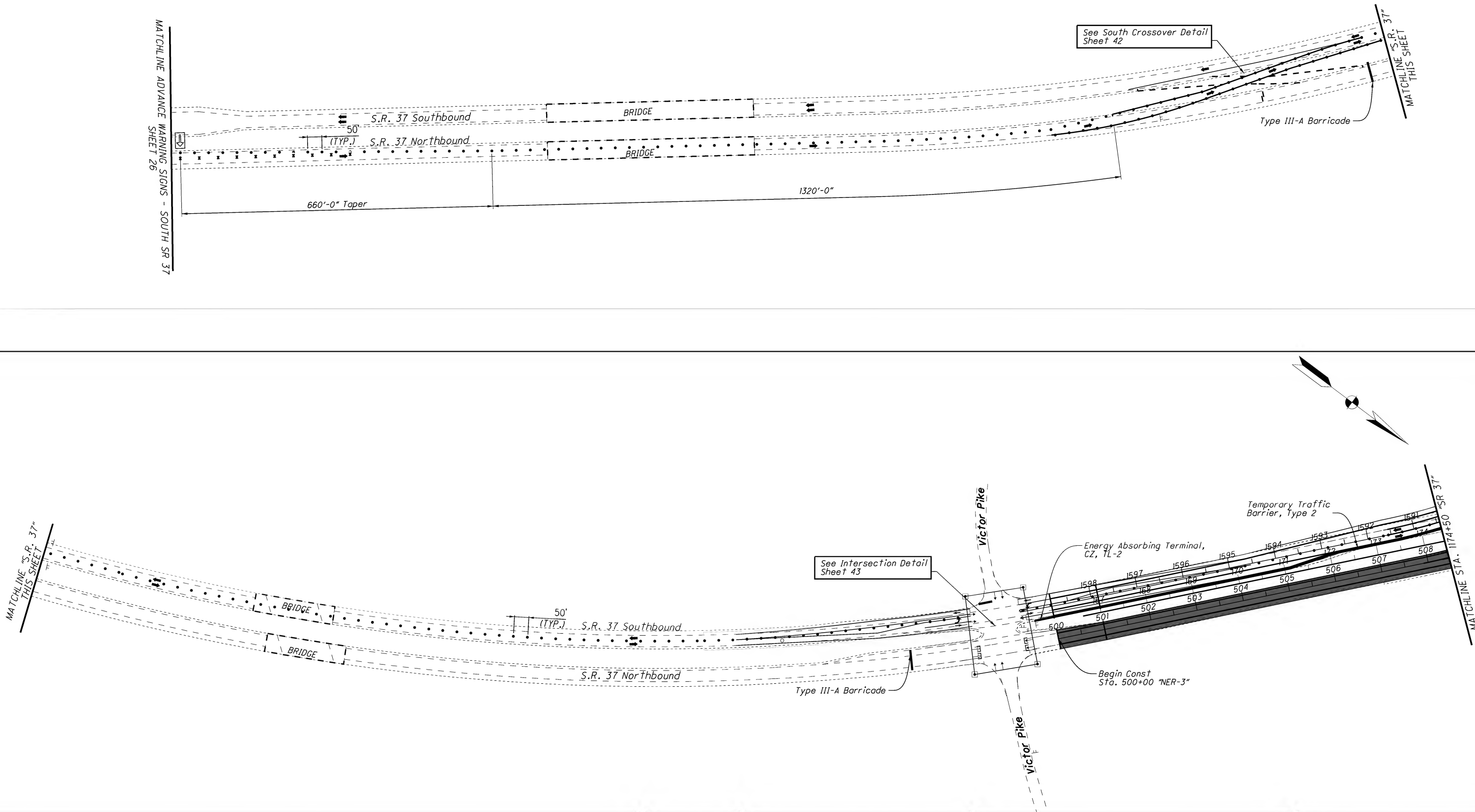
INDIANA

DEPARTMENT OF TRANSPORTATION

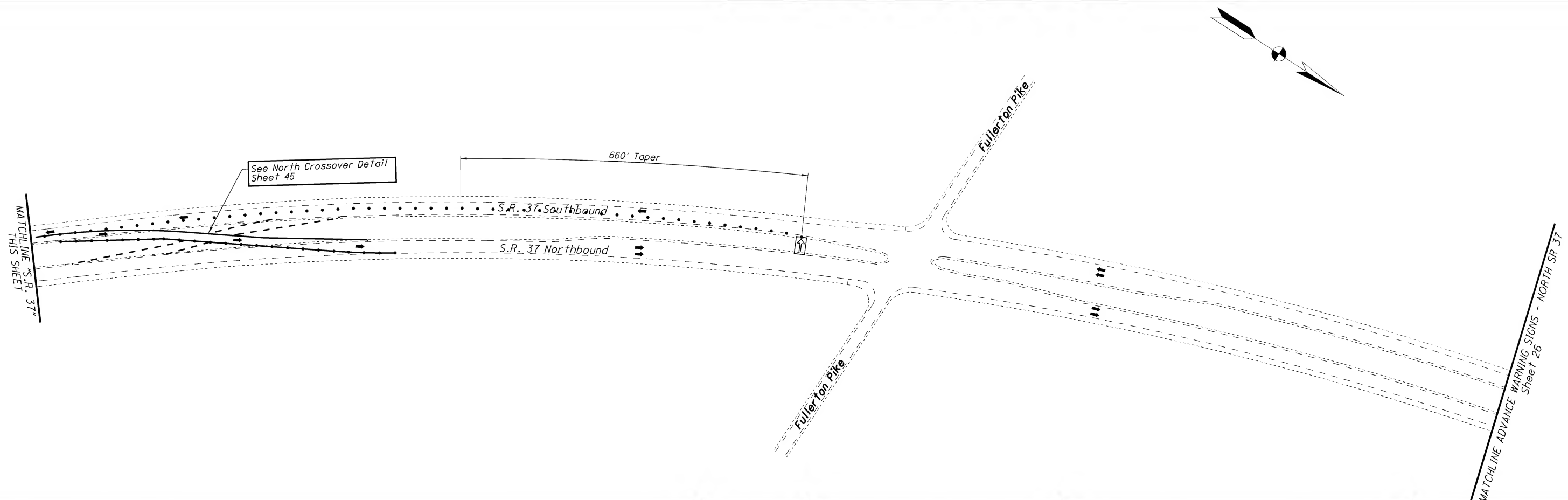
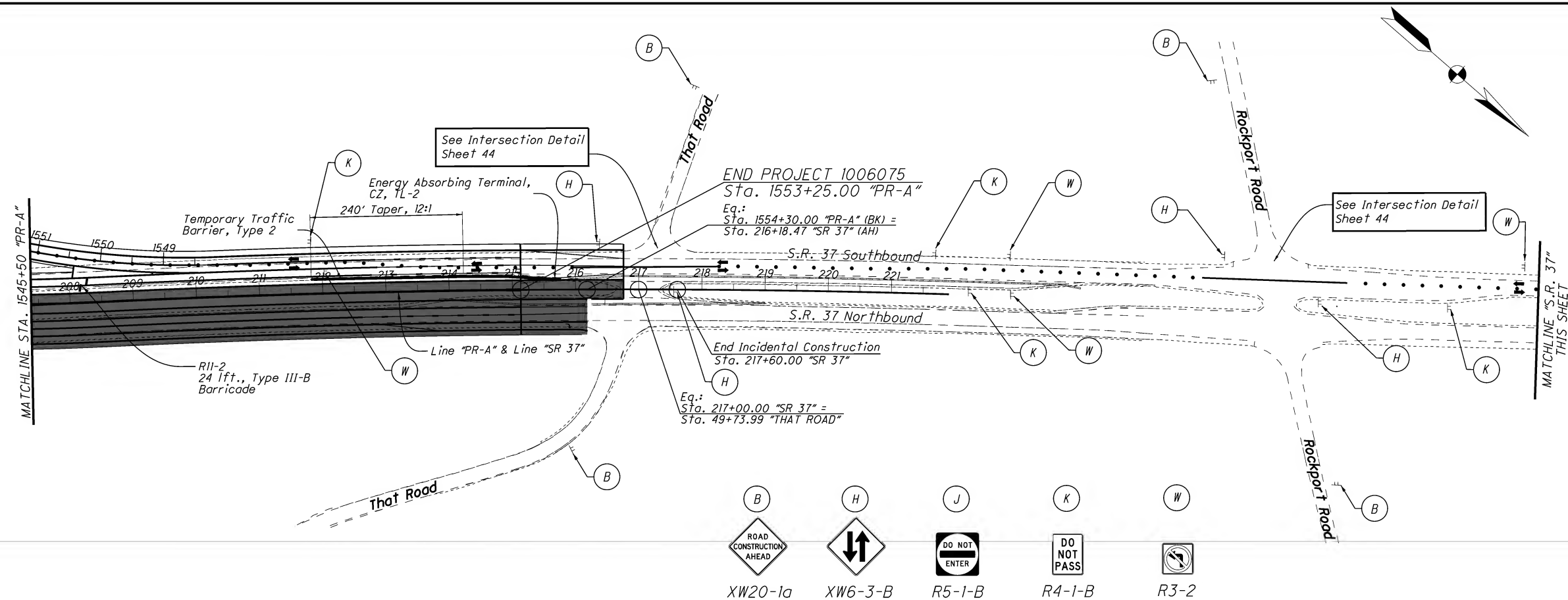
MAINTENANCE OF TRAFFIC

PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MS-18
CONTRACT	PROJECT
IR-33742	1006075







- Area under construction
- Flexible Tubular Markers (50' Spa.)
- Flashing Arrow Board



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: MDO

DRAWN: KCH

CHECKED: HCF

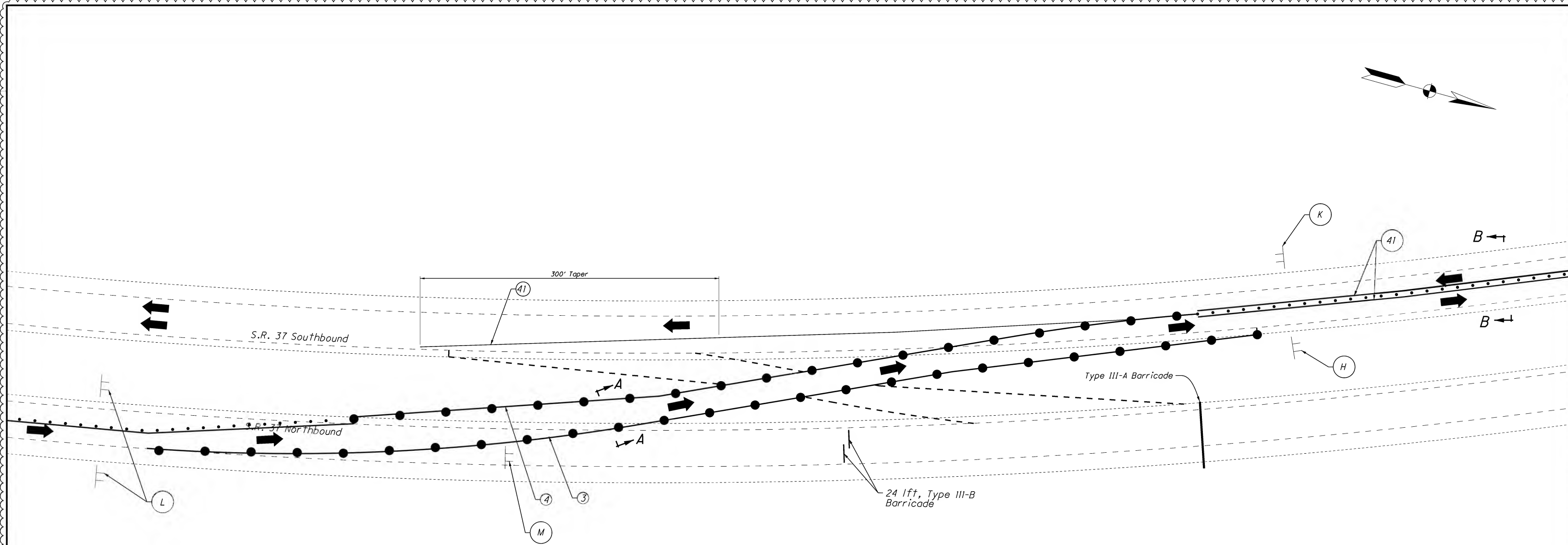
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INDIANA  
DEPARTMENT OF TRANSPORTATION

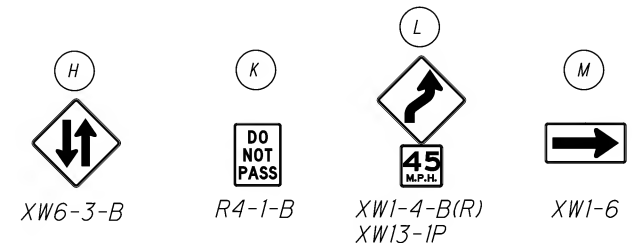
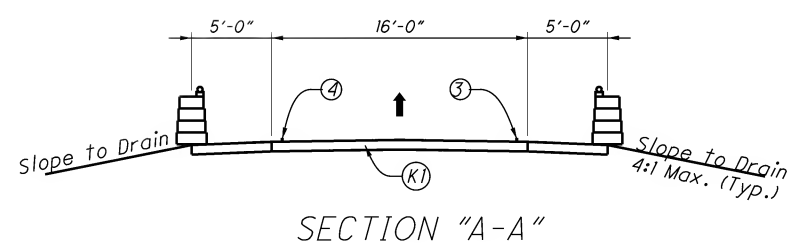
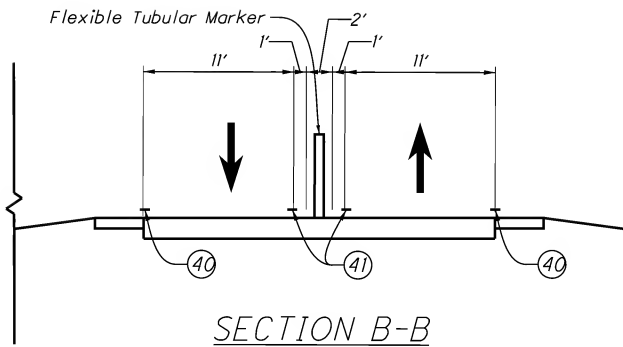
MAINTENANCE OF TRAFFIC  
PHASE 3

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-20
CONTRACT IR-33742	SHEETS 41 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 11:42:18 AM  
LOCATION: 1006075



SOUTH TEMPORARY CROSSOVER DETAIL



- ③ Temp. Pavement Marking, Removable, 8 in., White
- ④ Temp. Pavement Marking, Removable, 8 in., Yellow
- ④① Temp. Pavement Marking, Removable, 4 in., White
- ④① Temp. Pavement Marking, Removable, 4 in., Yellow
- ④⑤ Temp. Pavement Marking, Removable, 24 in., White
- ➡ Direction of Traffic
- • • Flexible Tubular Markers (50' Spa.)
- Construction Barrel
- (K1) 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on 275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on 660 lb/yd<sup>2</sup> HMA, Type B, Base, on Subgrade Treatment (Type IC)



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

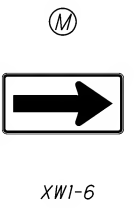
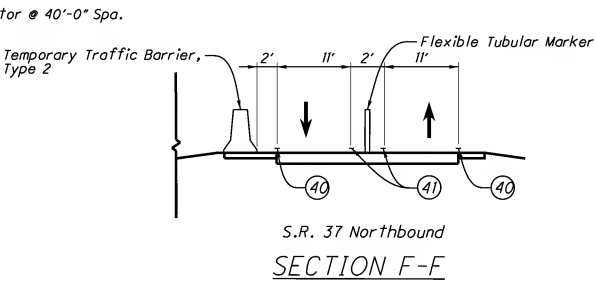
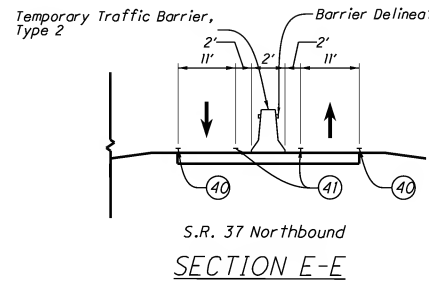
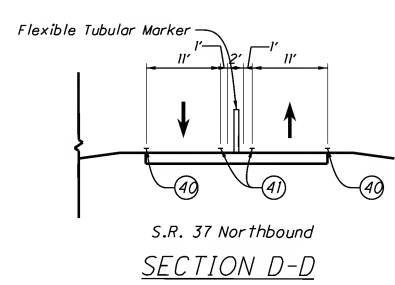
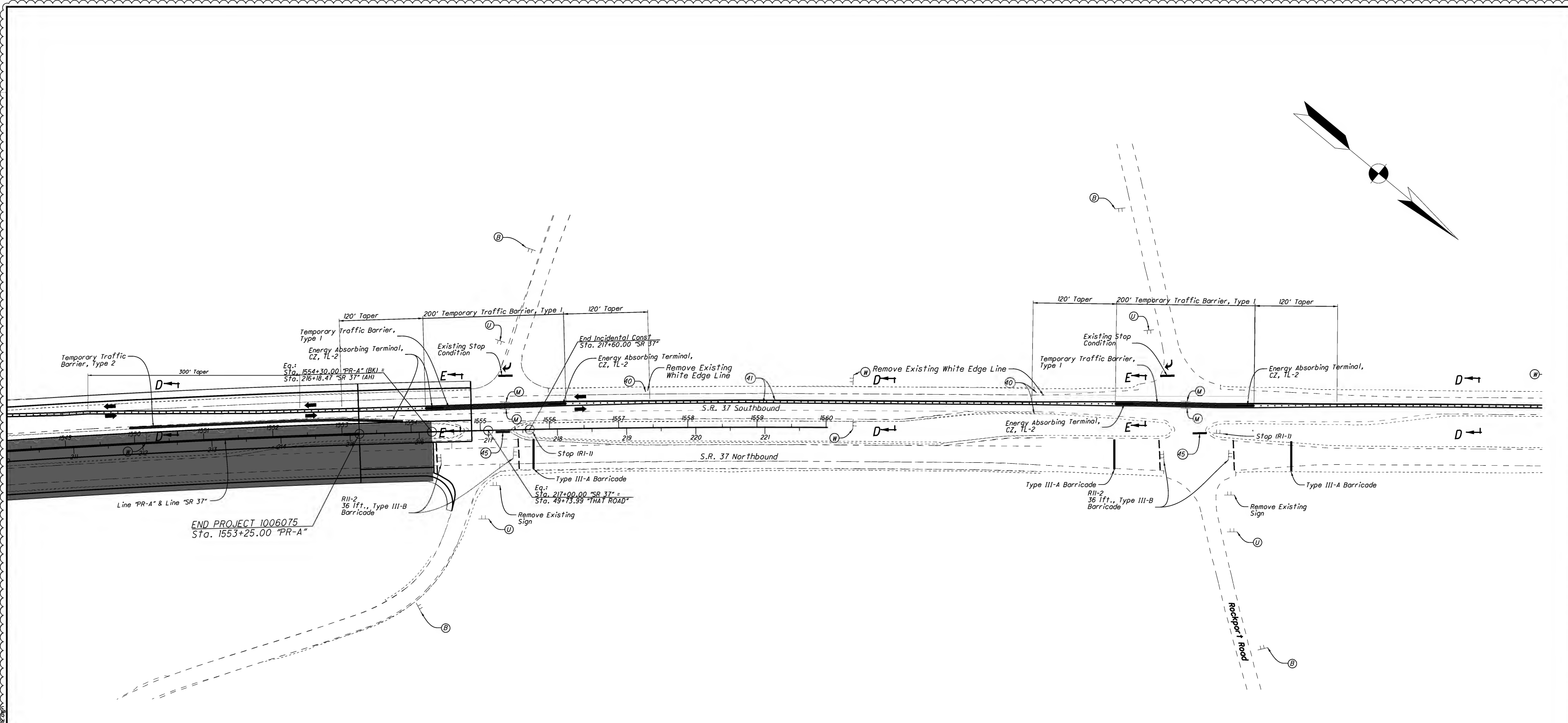
MAINTENANCE OF TRAFFIC  
PHASE 3 - CROSSOVER DETAILS

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-21
CONTRACT IR-33742	SHEETS 42 of 173
	PROJECT 1006075

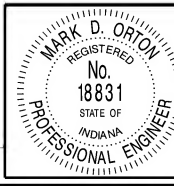
DATE: 10/1/2012  
TIME: 10:41:47 AM  
LOCATION: SR 37, SOUTHBOUND, 1/2 MILE SOUTH OF I-490







	Area under construction		Flexible Tubular Markers (50' Spa.)
(40)	Temp. Pavement Marking, Removable, 4 in., White		
(41)	Temp. Pavement Marking, Removable, 4 in., Yellow		
(45)	Temp. Pavement Marking, Removable, 24 in., White		
	Direction of Traffic		



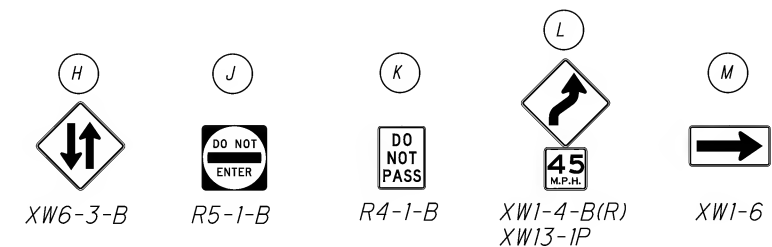
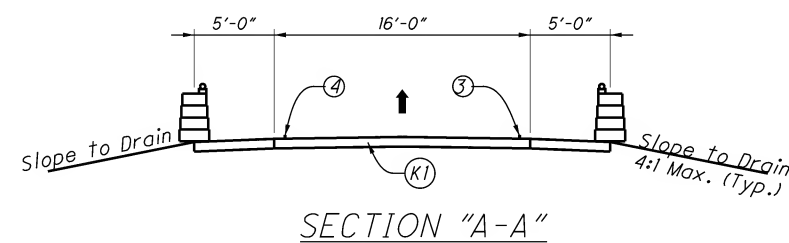
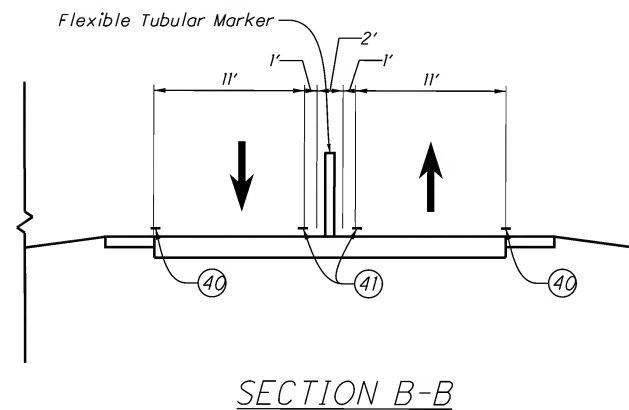
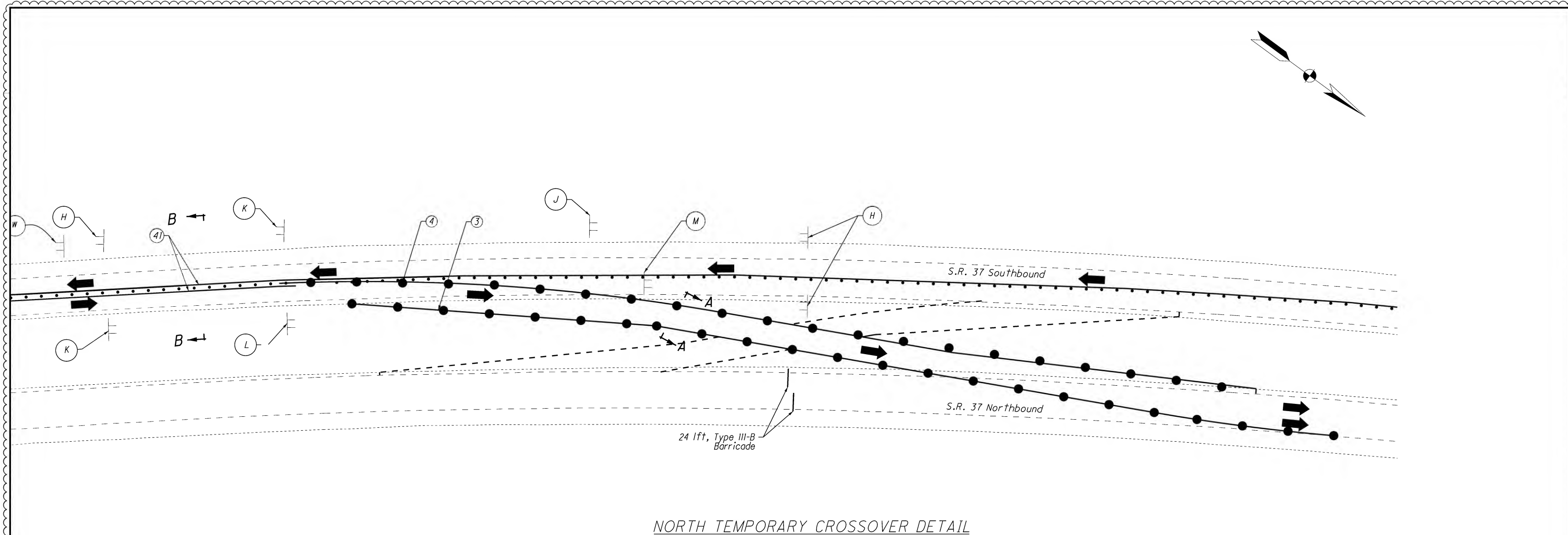
RECOMMENDED FOR APPROVAL		DATE	9/6/10
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

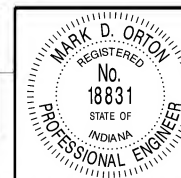
MAINTENANCE OF TRAFFIC  
PHASE 3 - INTERSECTION DETAILS

HORIZONTAL SCALE	1" = 40'	BRIDGE FILE	N/A
VERTICAL SCALE	N/A	DESIGNATION	1006075
SURVEY BOOK	ELECTRONIC / AERIAL	PAGE	MS-23
CONTRACT	IR-33742	SHEETS	44 of 173
		PROJECT	1006075

DATE: 10/1/2012  
TIME: 10:41:48 AM  
LOCATION: 1006075



- ③ Temp. Pavement Marking, Removable, 8 in., White
- ④ Temp. Pavement Marking, Removable, 8 in., Yellow
- ④① Temp. Pavement Marking, Removable, 4 in., White
- ④① Temp. Pavement Marking, Removable, 4 in., Yellow
- ④⑤ Temp. Pavement Marking, Removable, 24 in., White
- ➡ Direction of Traffic
- • • Flexible Tubular Markers (50' Spa.)
- Construction Barrel
- (K1) 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on 275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on 660 lb/yd<sup>2</sup> HMA, Type B, Base, on Subgrade Treatment (Type IC)



RECOMMENDED FOR APPROVAL		DESIGNED: MDO		DRAWN: KCH	
CHECKED: HCF		CHECKED: MDO		DATE: 9/6/10	

INDIANA DEPARTMENT OF TRANSPORTATION	
MAINTENANCE OF TRAFFIC PHASE 3 - CROSSOVER DETAILS	

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-24
CONTRACT IR-33742	SHEETS 45 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:50 AM  
LOCATION: 1006075

DATE: 10/1/2012  
TIME: 10:41:51 AM  
LOCATION: I-374+50

09/25/12 - Miscellaneous revisions

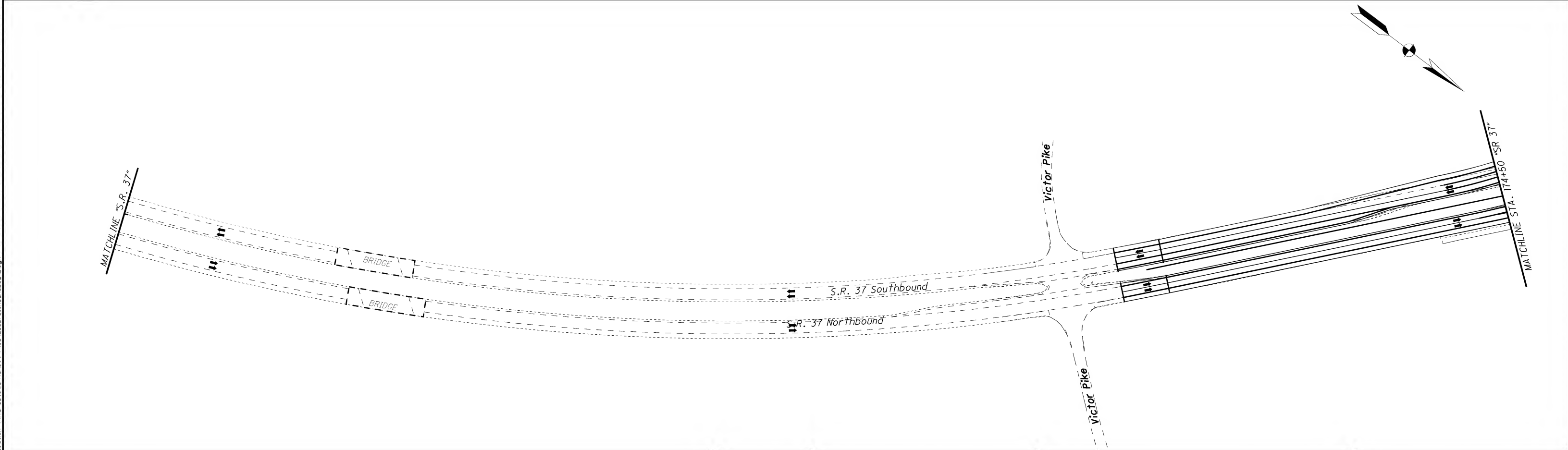
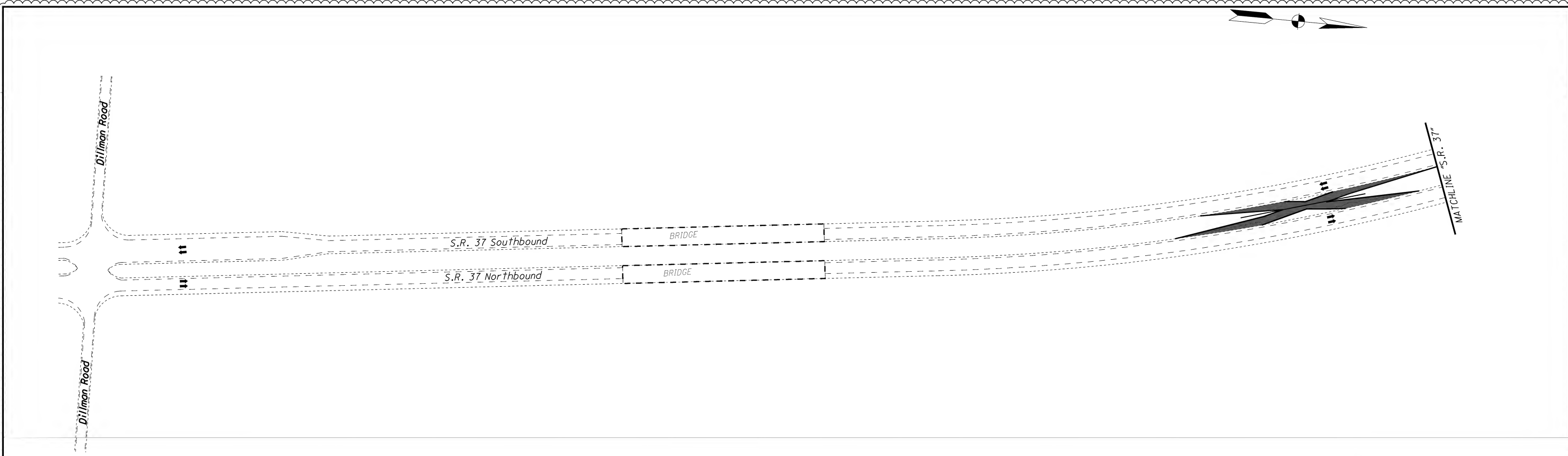
Area under construction



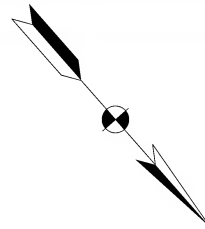
RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/12 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: KCH		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 4

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-25
CONTRACT IR-33742	SHEETS 46 of 173
	PROJECT 1006075



MATCHLINE STA. 1511+00 "PR-A"



MATCHLINE STA. 174+50 "SR 37"

MATCHLINE STA. 1545+50 "PR-A"

Area under construction



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

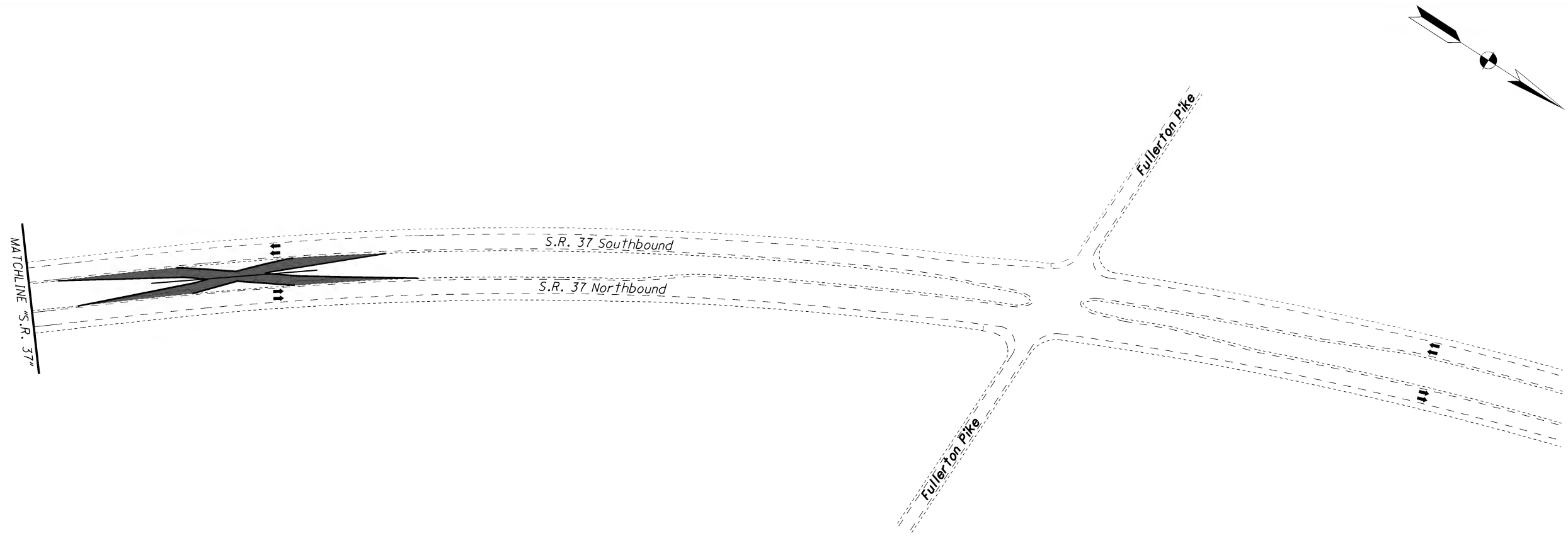
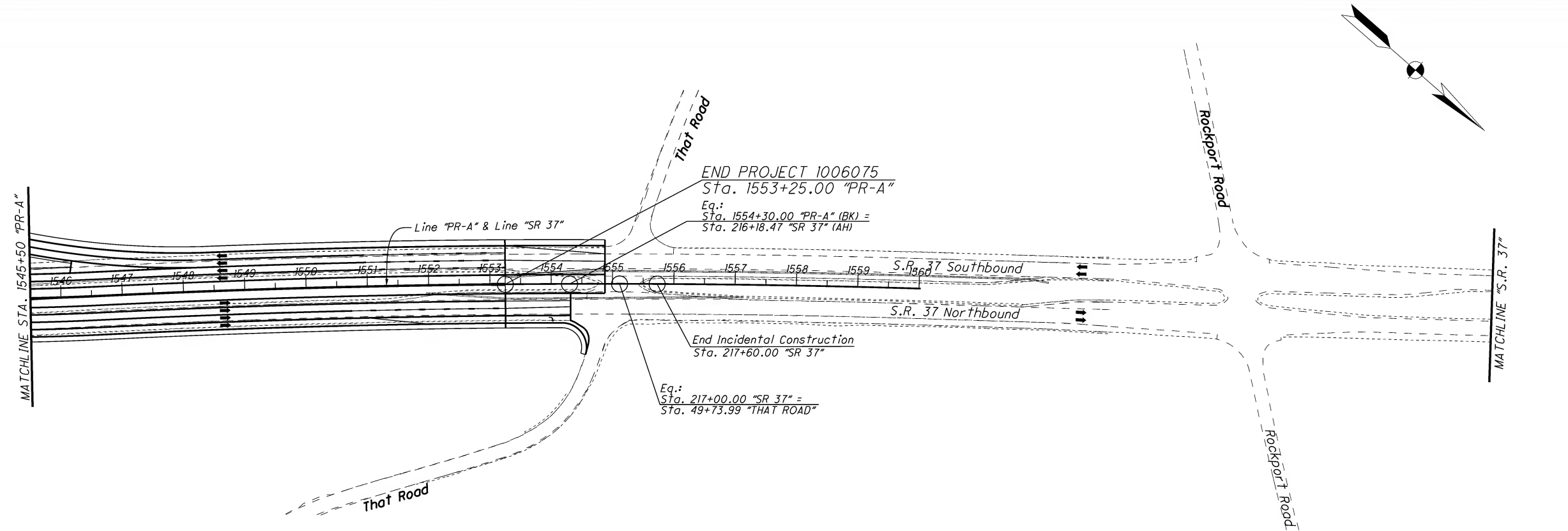
INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 4

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-26
CONTRACT IR-33742	SHEETS 47 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:41:52 AM  
LOCATION: 1006075

09/25/12 - Miscellaneous revisions



Area under construction



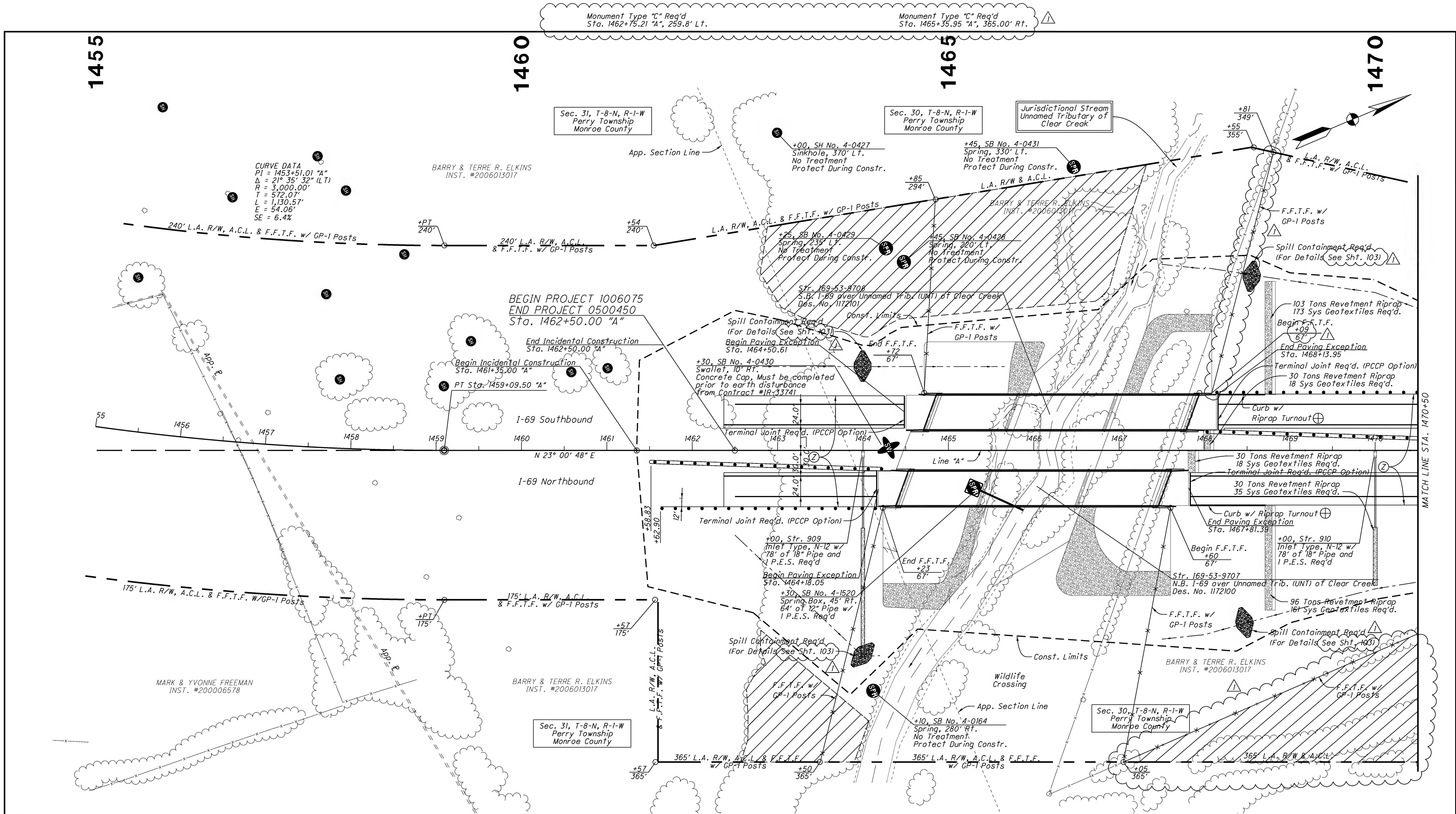
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
MAINTENANCE OF TRAFFIC	
PHASE 4	

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	MS-27	48 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

DATE: 10/1/2012  
TIME: 10:41:54 AM  
LOCATION: SR 37, INDIANA



Note:  
All R/W on this sheet to be as shown.

All R/W on this sheet described from  
Line "A" except as noted.

Line "A" to be constructed.

LEGEND			
	- Begin L.A. R/W		See TY-07 for Curb and Riprap Turnout Details.
	- End L.A. R/W		
	Sinkhole		Swallet
	Spring		Do Not Disturb Trees
			See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.



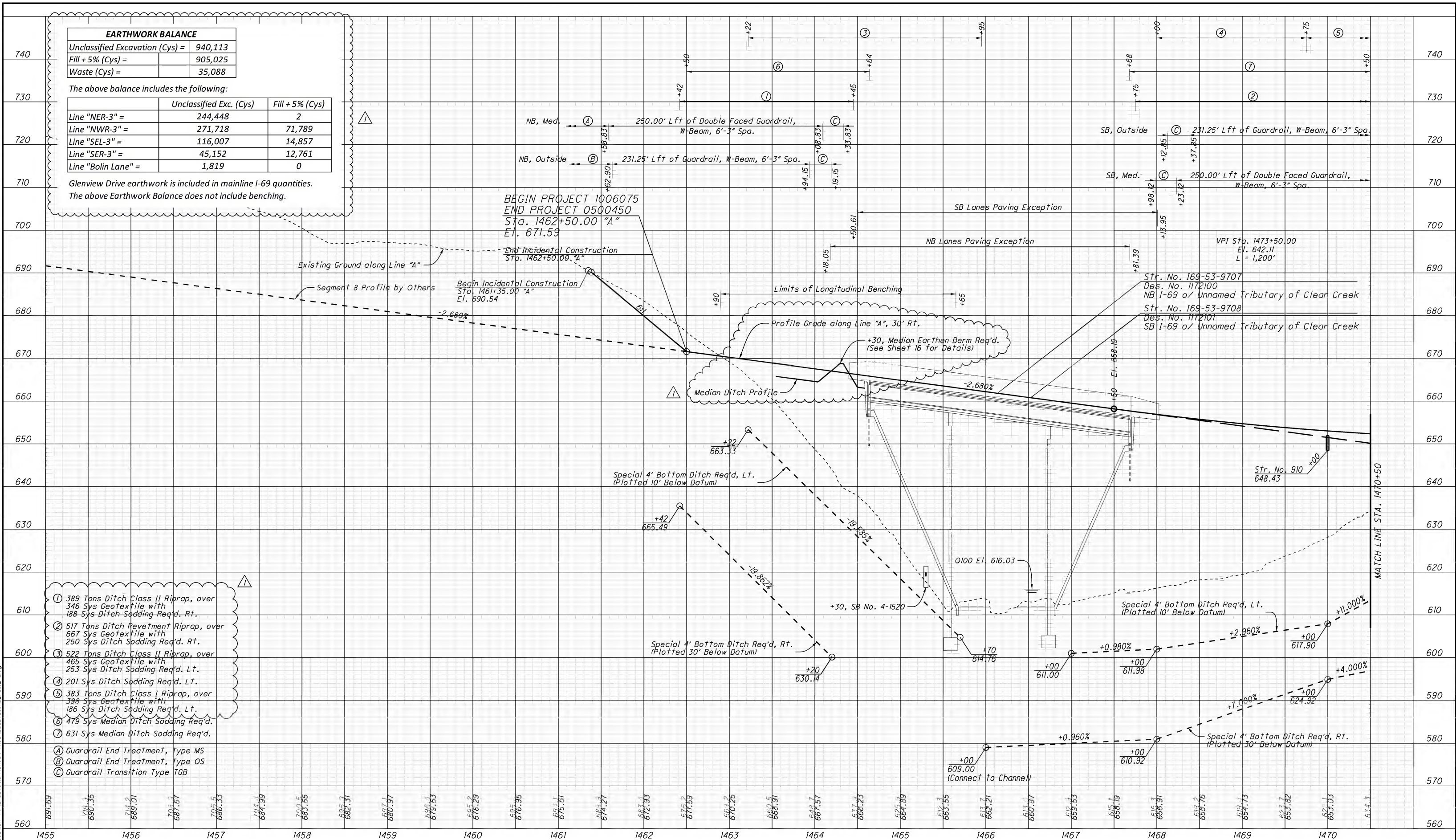
RECOMMENDED FOR APPROVAL		DATE
DESIGNED:	MDO	DRAWN:
CHECKED:	HCF	CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
STA. 1455+00 TO STA. 1470+50 "A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-01
CONTRACT IR-33742	SHEETS 51 of 173
	PROJECT 1006075



DATE: 10/1/2012  
TIME: 10:41:57 AM  
LOCATION: R:\03141 - I-69 Section 4\MicroStation\Sheet Files\PS-01\PS-01\_AE.dgn



EARTHWORK BALANCE		
Unclassified Excavation (Cys) =	940,113	
Fill + 5% (Cys) =	905,025	
Waste (Cys) =	35,088	

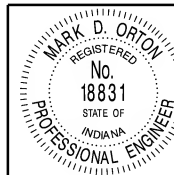
The above balance includes the following:

	Unclassified Exc. (Cys)	Fill + 5% (Cys)
Line "NER-3" =	244,448	2
Line "NWR-3" =	271,718	71,789
Line "SEL-3" =	116,007	14,857
Line "SER-3" =	45,152	12,761
Line "Bolin Lane" =	1,819	0

Glenview Drive earthwork is included in mainline I-69 quantities.  
The above Earthwork Balance does not include benching.

- ① 389 Tons Ditch Class II Riprap, over 346 Sys Geotextile with 188 Sys Ditch Sodding Req'd. Rt.
- ② 517 Tons Ditch Revetment Riprap, over 667 Sys Geotextile with 250 Sys Ditch Sodding Req'd. Rt.
- ③ 522 Tons Ditch Class II Riprap, over 465 Sys Geotextile with 253 Sys Ditch Sodding Req'd. Lt.
- ④ 201 Sys Ditch Sodding Req'd. Lt.
- ⑤ 383 Tons Ditch Class I Riprap, over 398 Sys Geotextile with 186 Sys Ditch Sodding Req'd. Lt.
- ⑥ 479 Sys Median Ditch Sodding Req'd.
- ⑦ 631 Sys Median Ditch Sodding Req'd.

- Ⓐ Guardrail End Treatment, Type MS
- Ⓑ Guardrail End Treatment, Type OS
- Ⓒ Guardrail Transition Type TGB



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET  
STA. 1455+00 TO STA. 1470+50 "A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-01
CONTRACT IR-33742	SHEETS 52 of 173
	PROJECT 1006075



Monument Type "C" Req'd  
P.C. Sta. 1471+42.94 "A"

Monument Type "C" Req'd  
Sta. 1476+50.00 "A", 395.6' Rt.

Monument Type "C" Req'd  
Sta. 1478+71.54 "A", 290.0' Rt.

Monument Type "D" Req'd  
P.I. Sta. 1478+85.59 "A", 34.4' Lt.

1475

1480

1485

Sec. 30, T-8-N, R-1-W  
Perry Township  
Monroe County

BARRY & TERRE R. ELKINS  
INST. #2006013017

JASON MATTHEW WITHROW  
& GEORGE HUTTON  
INST. #2011002036

BARRY & TERRE R. ELKINS  
INST. #2006013017

+45, SH No. 4-0088  
Sinkhole, 390' LT.  
No Treatment  
Protect During Const.

300' L.A. R/W, A.C.L. &  
F.F.T.F. w/ GP-1 Posts  
+58  
300'

+15, SB No. 4-0089  
Cave, 330' LT.  
No Treatment  
Protect During Const.

Eq.: L.A. R/W, A.C.L. & F.F.T.F. w/ GP-1 Posts

POC Sta. 1483+90.06 "A" =  
POT Sta. 6+76.58 "PR-T-134"  
+40, SB No. 4-0098  
Sinking Stream, 45' LT.  
Aggregate Cap  
Geomembrane Ditch  
Extend Granular Backfill  
Within Existing Channel Per  
Details - See Special Channel  
Fill Detail this page and  
Const. Sequence in Spec. Prov.

+90, Str. No. 134 (I-69-53-9709)  
I-69 over Unnamed Tributary of  
Clear Creek  
550' of 28' x 10' Precast 3-Sided Arch  
Des. No. 1172102

+75, SH No. 4-0097  
Sinkhole, 170' LT.  
Aggregate Cap  
Geomembrane Ditch

7 Tons Revetment Riprap  
& Sys Geotextiles Req'd.  
+00, Str. 913  
Inlet Type, N-12 w/  
78' of 18" Pipe and  
I.P.E.S. Req'd

Special Fill Req'd  
See Special Channel  
Fill Detail this page  
and Const. Sequence per  
Special Provision

PI Sta. 1478+85.59 "A"  
 $\Delta = 10^\circ 36' 26"$  (RT)

Const. Limits

+00, Str. 912  
Inlet Type, N-12 w/  
100' of 18" Pipe and  
I.P.E.S. Req'd

6 Tons Revetment Riprap  
& Sys Geotextiles Req'd.

+00, Str. 911  
Inlet Type, N-12 w/  
78' of 18" Pipe and  
I.P.E.S. Req'd

+69.10  
+73.12  
10'

PC Sta. 1471+42.94 "A"

+60, SH No. 4-0100  
Sinkhole, 25' Rt.  
Concrete Cap

Visual Tree Screen Required  
Sta. 1474+00 to Sta. 1493+00 "A"

PI Sta. 14+10.15  
PR-T-134

PC Sta. 13+71.40  
PR-T-134

F.F.T.F. w/  
GP-1 Posts

PC Sta. 9+50.17  
PR-T-134

PT Sta. 10+34.26  
PR-T-134

Line "PR-T-134"

Visual Tree Screen Required  
Sta. 1474+00 to Sta. 1493+00 "A"

LOT 3  
Detention  
Basin Req'd

BARRY & TERRE R. ELKINS  
INST. #2006013017

+30, SH No. 4-0099  
Sinkhole, 130' Rt.  
Aggregate Cap  
Geomembrane Ditch

PI Sta. 14+45.33  
PR-T-134

POT Sta. 14+75.58 "PR-T-134"

Const. Limits

App. 1/4 Section Line  
and App. P

1/4 Sect. Line

LOT 7

LOT 8

LOT 9

LOT 6

LOT 5

LOT 4

LOT 3

LOT 2

LOT 1

LOT 0

LOT -1

LOT -2

LOT -3

LOT -4

LOT -5

LOT -6

LOT -7

LOT -8

LOT -9

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LOT -232

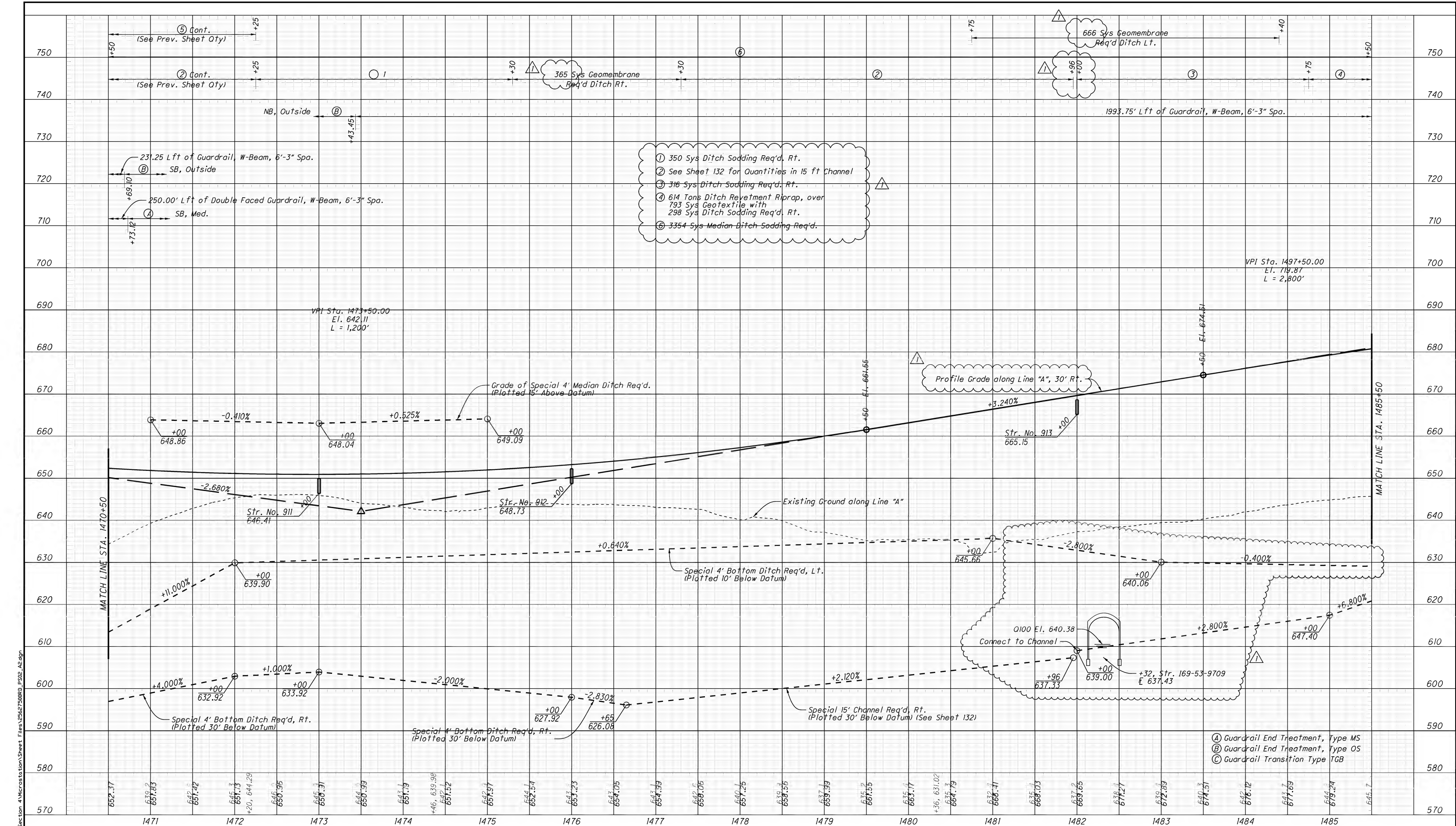
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LOT -234

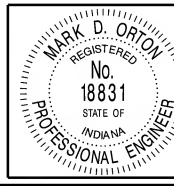
LOT -235

LOT -236

LOT -237



DATE: 10/1/2012  
TIME: 10:42:00 AM  
LOCATION: R:\00141 - I-69 Section 4\Microstation\Sheet Files\PS02\PS02.dgn



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET STA. 1470+50 TO STA. 1485+50 "A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-02
CONTRACT IR-33742	SHEETS 54 of 173
	PROJECT 1006075



Monument Type "C" Req'd  
P.T. Sta. 1486+23.99 "A"

Monument Type "C" Req'd  
P.C. Sta. 1494+13.78 "A"

Monument Type "C" Req'd  
P.C. Sta. 1495+09.39 "PR-A"

1490

1495

1500

CURVE DATA  
PI = 1478+85.59 "A"  
Δ = 10° 36' 26" (RT)  
R = 8,000.00'  
T = 742.65'  
L = 1,481.05'  
E = 34.40'  
S.E. = 2.7%

CURVE DATA  
PI = 8+41.56 "Glenview Drive"  
Δ = 38° 49' 46" (RT)  
R = 250.00'  
T = 88.11'  
L = 169.43'  
E = 15.07'

CURVE DATA  
PI = 10+94.31 "Glenview Drive"  
Δ = 23° 21' 45" (LT)  
R = 250.00'  
T = 51.69'  
L = 101.94'  
E = 5.29'

BARRY & TERRE R. ELKINS  
INST. #2006013017

MARY MABEL ELLIS HANE  
DEED BOOK 269, PAGE 263  
Sec. 30, T-8-N, R-1-W  
Perry Township  
Monroe County

CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 17° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.94'  
L = 5,148.65'  
E = 1,076.98'  
S.E. = 5.2%

CURVE DATA  
PI = 1522+94.22 "A"  
Δ = 71° 30' 58" (LT)  
R = 4,000.00'  
T = 2,880.44'  
L = 4,992.77'  
E = 929.19'

Jurisdictional Stream  
Unnamed Tributary  
of Clear Creek

+50 "PR-A", SB No. 4-0085  
Springbox, 145' LT.  
56' of 12" Pipe w/  
1 P.E.S. Req'd

+50 "PR-A", Str. 918  
Inlet Type, N-12 (10:1)  
w/ 98' of 18" Pipe  
and 1 P.E.S. Req'd

+15 "PR-A", Str. No. 975  
450' of 48" Pipe w/  
2 Pipe Anchors Req'd

+80 "PR-A", SH No. 4-0084  
Sinkhole, 80' LT.  
Concrete Cap

+25 "PR-A", Str. 916  
Inlet Type, N-12 w/  
84' of 18" Pipe and  
1 P.E.S. Req'd

+00 "PR-A", 20' U-Turn Median Opening Req'd  
Std. Dwg. 610-UTMO-01

+55 "PR-A"  
Detention  
Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

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Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

+55 "PR-A"  
Detention  
Basin Req'd

Note:  
All R/W on this sheet to be as shown.

All R/W on this sheet described from Line "A"  
except as noted.

Line "A" to be constructed to Sta. 1494+13.78,  
and then Line "PR-A" to be constructed.

LEGEND  
[B] - Begin L.A. R/W  
[E] - End L.A. R/W  
[SH] Sinkhole  
[SPR] Spring  
[Z] See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.  
For Visual Tree Screening Details, See Sheet 16.  
PR-G = PR-Glenview Drive  
PR-2-G = PR-2-Glenview Drive

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED  
FOR APPROVAL  
DESIGN ENGINEER  
DATE  
DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PLAN SHEET  
STA. 1485+50 "A" TO STA. 1500+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-03
CONTRACT IR-33742	SHEETS 55 of 173
	PROJECT 1006075





Monument Type "C" Req'd  
P.O.C. Sta. 1504+00.00 "PR-A"

Monument Type "C" Req'd  
P.O.C. Sta. 1514+00.00 "PR-A"

1505

1510

1515

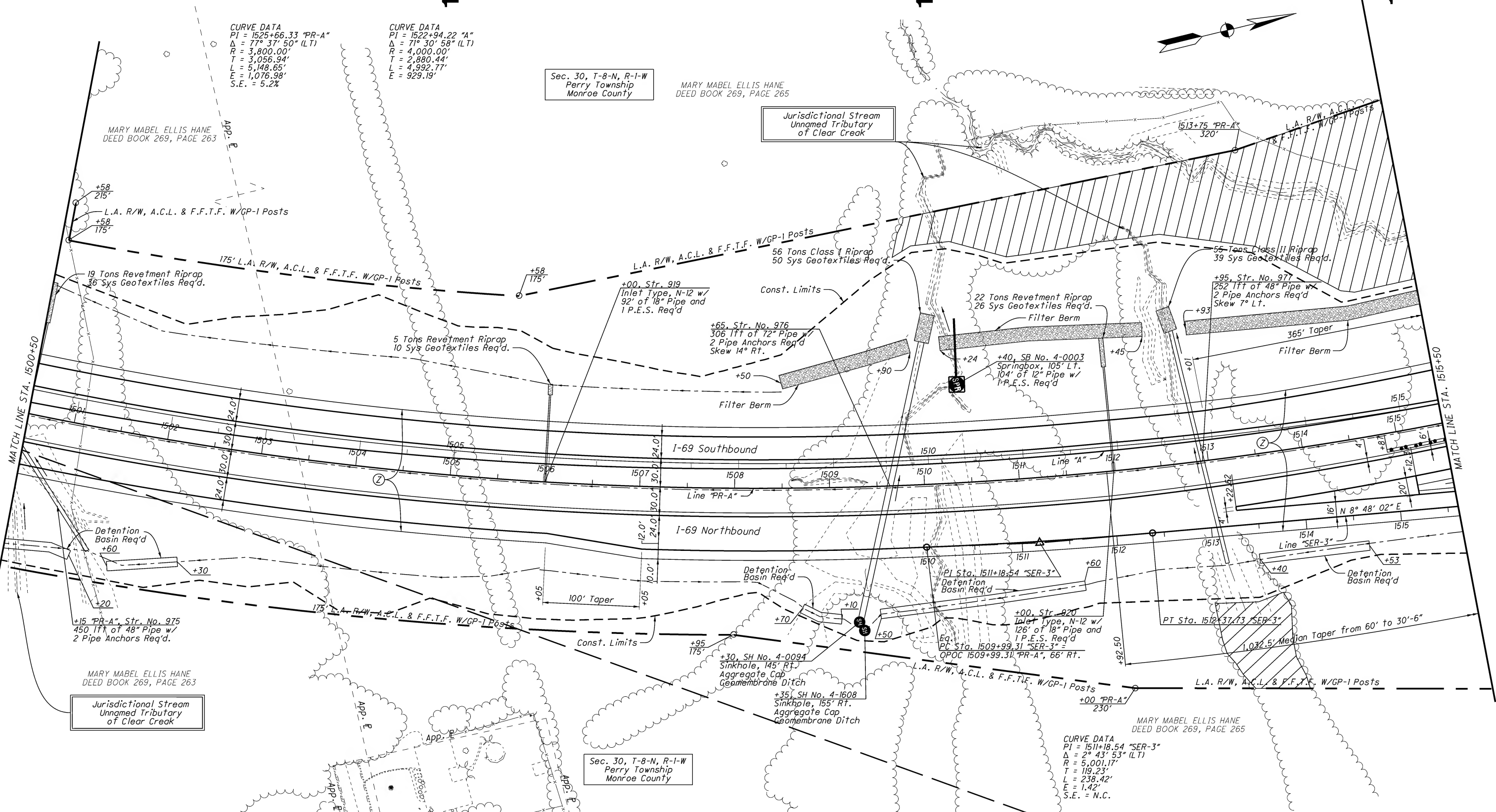
CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 77° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.94'  
L = 5,148.65'  
E = 1,076.98'  
S.E. = 5.2%

CURVE DATA  
PI = 1522+94.22 "A"  
Δ = 71° 30' 58" (LT)  
R = 4,000.00'  
T = 2,890.44'  
L = 4,992.77'  
E = 929.19'

Sec. 30, T-8-N, R-1-W  
Perry Township  
Monroe County

MARY MABEL ELLIS HANE  
DEED BOOK 269, PAGE 265

Jurisdictional Stream  
Unnamed Tributary  
of Clear Creek



Note:  
All R/W on this sheet to be as shown.  
All R/W on this sheet described from  
Line "A" except as noted.

All callouts for improvements are loc  
ated from Line "PR-A" unless otherwise  
noted.

Line "PR-A" to be constructed.

LEGEND

- SH Sinkhole
- SPR Spring
- Do Not Disturb Trees
- See Typical Sections for Construction Materials

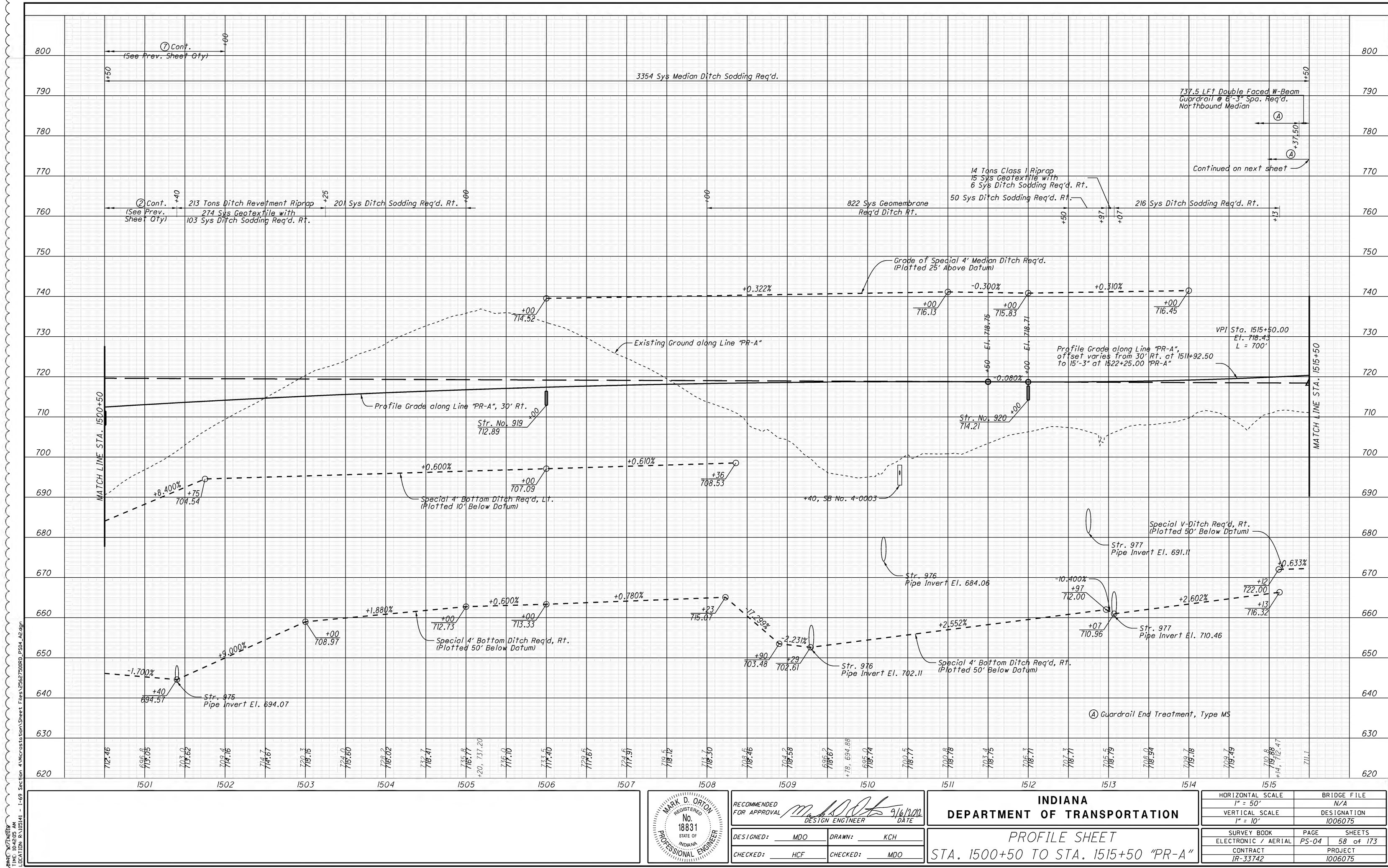
For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10  
DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PLAN SHEET  
STA. 1500+50 TO STA. 1515+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-04
CONTRACT IR-33742	SHEETS 57 of 173
	PROJECT 1006075



09/25/12 - Miscellaneous revisions



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
STA. 1500+50 TO STA. 1515+50 "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-04
CONTRACT IR-33742	SHEETS 58 of 173
	PROJECT 1006075

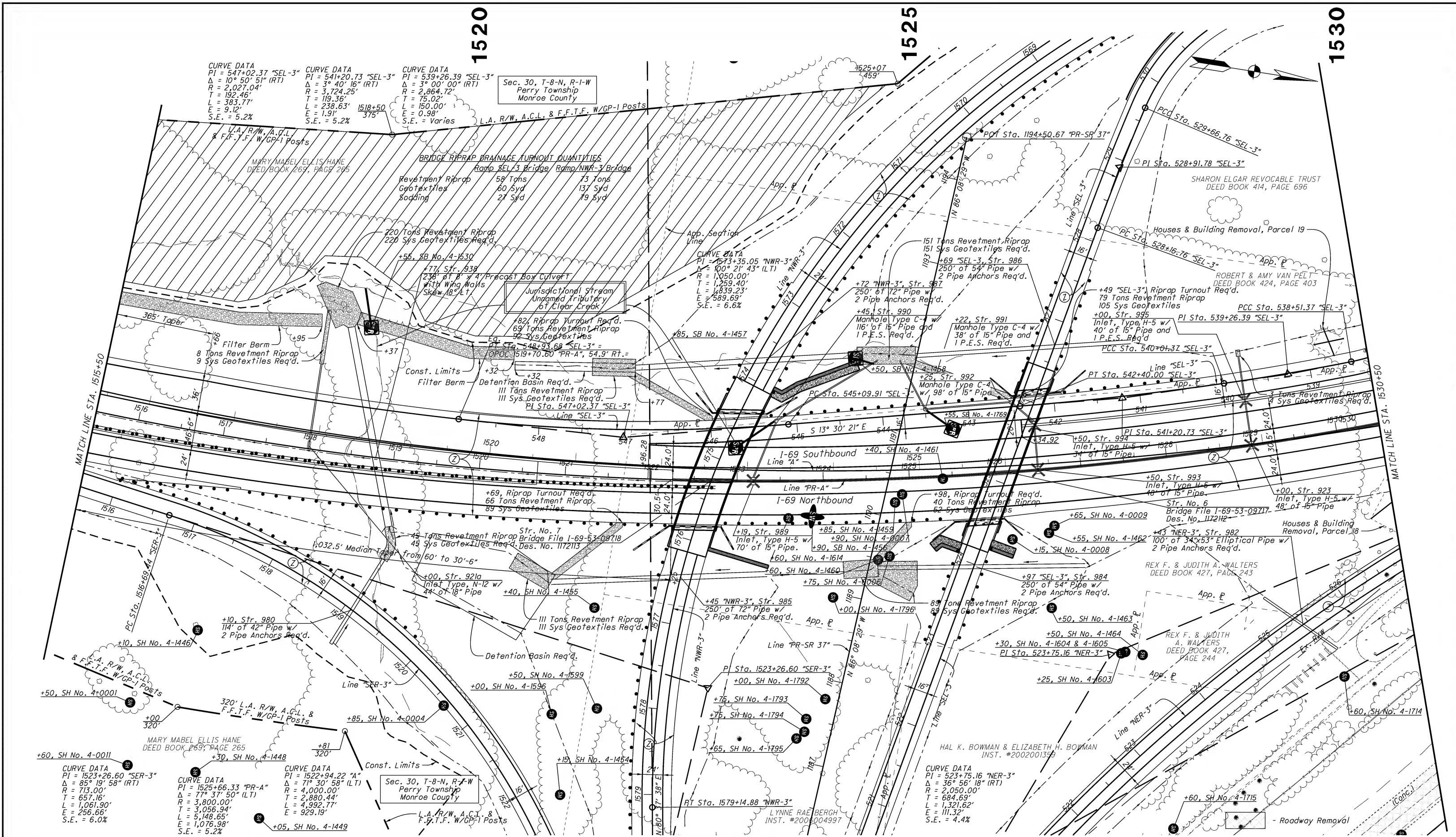


Monument Type "C" Req'd Sta. 1521+31.53 "PR-A", 320' Rt. Monument Type "C" Req'd Sta. 1522+28.88 "PR-A", 436.1' Lt. Monument Type "D" Req'd P.O.C. Sta. 1524+00.00 "PR-A" P.I. Sta. 1525+66.33 "PR-A", 1,076.9' Rt.

1520

1525

1530



**LEGEND**

SH Sinkhole

SPR Spring

SW Swallet

Do Not Disturb Trees

See Typical Sections for Construction Materials (From 1462+50 "A" to 1522+25 "PR-A", use Rural Typical Sections. From 1522+25 "PR-A" to 1533+25 "PR-A", use Urban Typical Sections.)

For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.  
For Karst Treatments See Sheet 149.

Note:  
All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "A" except as noted.  
Line "PR-A" to be constructed.

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

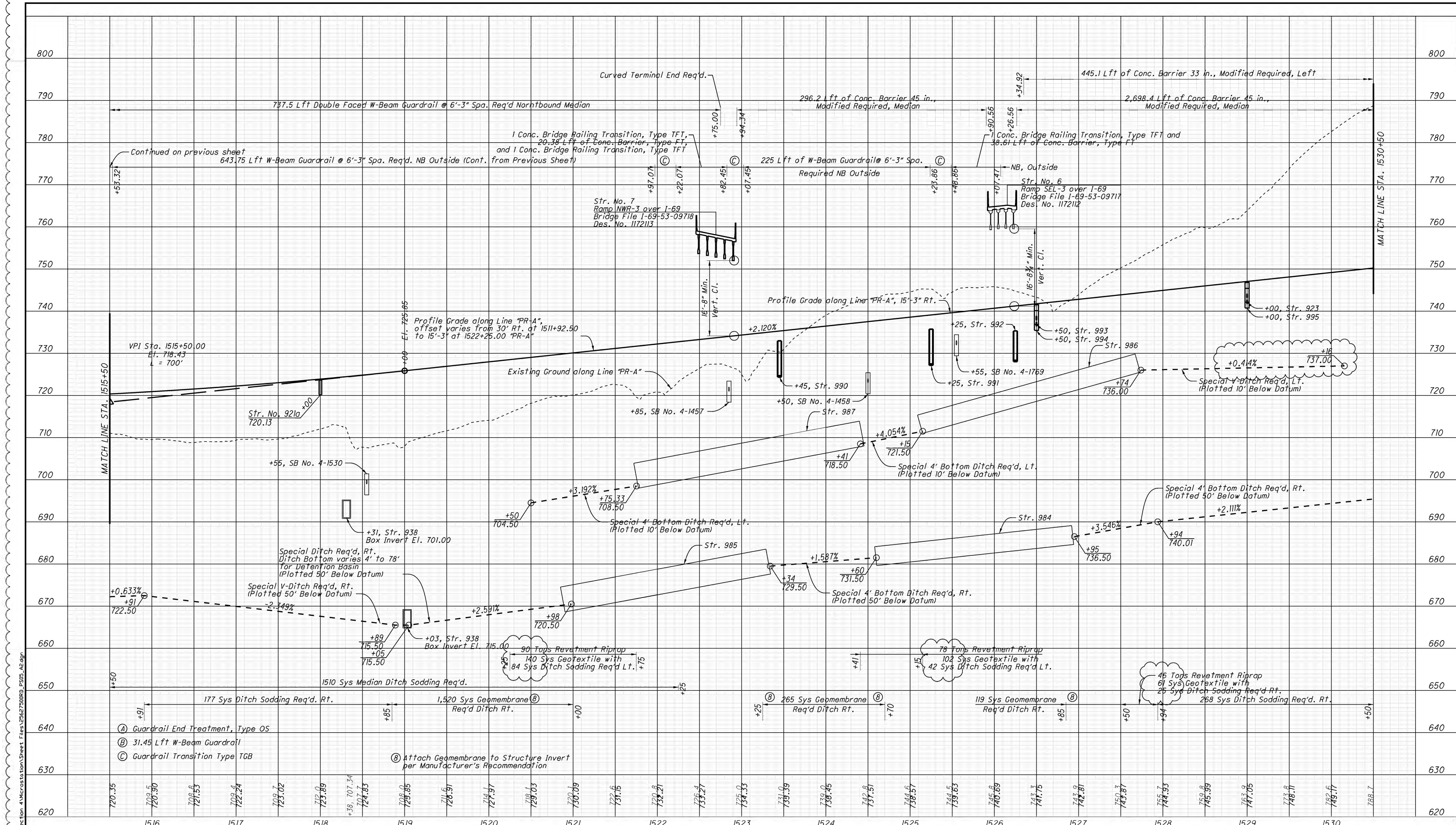
RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/2009

DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
STA. 1515+50 TO STA. 1530+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-05
CONTRACT IR-33742	SHEETS 59 of 173
	PROJECT 1006075



FILE: C:\Users\jwheeler\Documents\1-69 Section 4\MicroStation\Sheet Files\2062700RD\_PSD-A2.dgn  
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LOCATION: R:\03141 - I-69

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720.35	720.50	720.53	720.24	723.02	723.89	724.73	728.85	726.91	727.91	728.63	730.09	732.15	733.21	734.33
1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL  
*[Signature]*  
DESIGN ENGINEER  
DATE 9/6/10

DESIGNED: MDO  
CHECKED: HCF

DRAWN: KCH  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PROFILE SHEET  
STA. 1515+50 TO STA. 1530+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-05
CONTRACT IR-33742	SHEETS 60 of 173 PROJECT 1006075



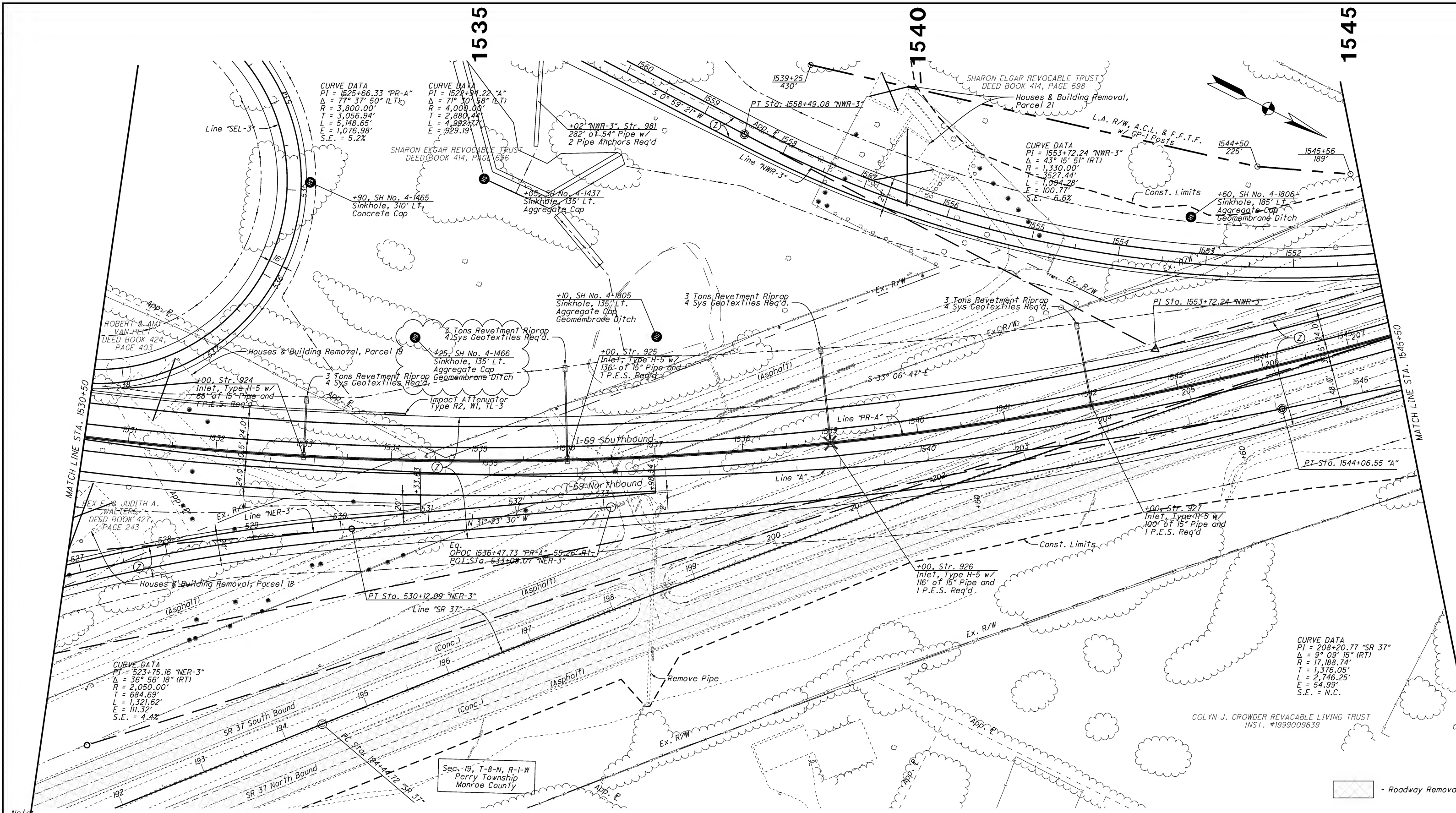
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P.O.C. Sta. 1534+00.00 "PR-A"

Monument Type "D" Req'd  
P.O.C. Sta. 1544+00.00 "PR-A"

1535

1540

1545



Notes:  
All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "A" except as noted.  
Line "PR-A" to be constructed.

**LEGEND**

SH Sinkhole

See Typical Sections for Construction Materials

For Sinkhole Treatment Detail See Sheet 100.



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE	9/6/10
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

**INDIANA**

**DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

STA. 1530+50 TO STA. 1545+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
NONE	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	PP-06
CONTRACT	SHEETS
IR-33742	61 of 173
	PROJECT
	1006075





Monument Type "D" Req'd  
P.C.C. Sta. 1546+58.04 "PR-A"

Monument Type "C" Req'd  
Sta. 1546+93.76 "PR-A", 170.0' Lt.

Monument Type "C" Req'd  
Sta. 1550+66.29 "PR-A", 175.0' Rt.

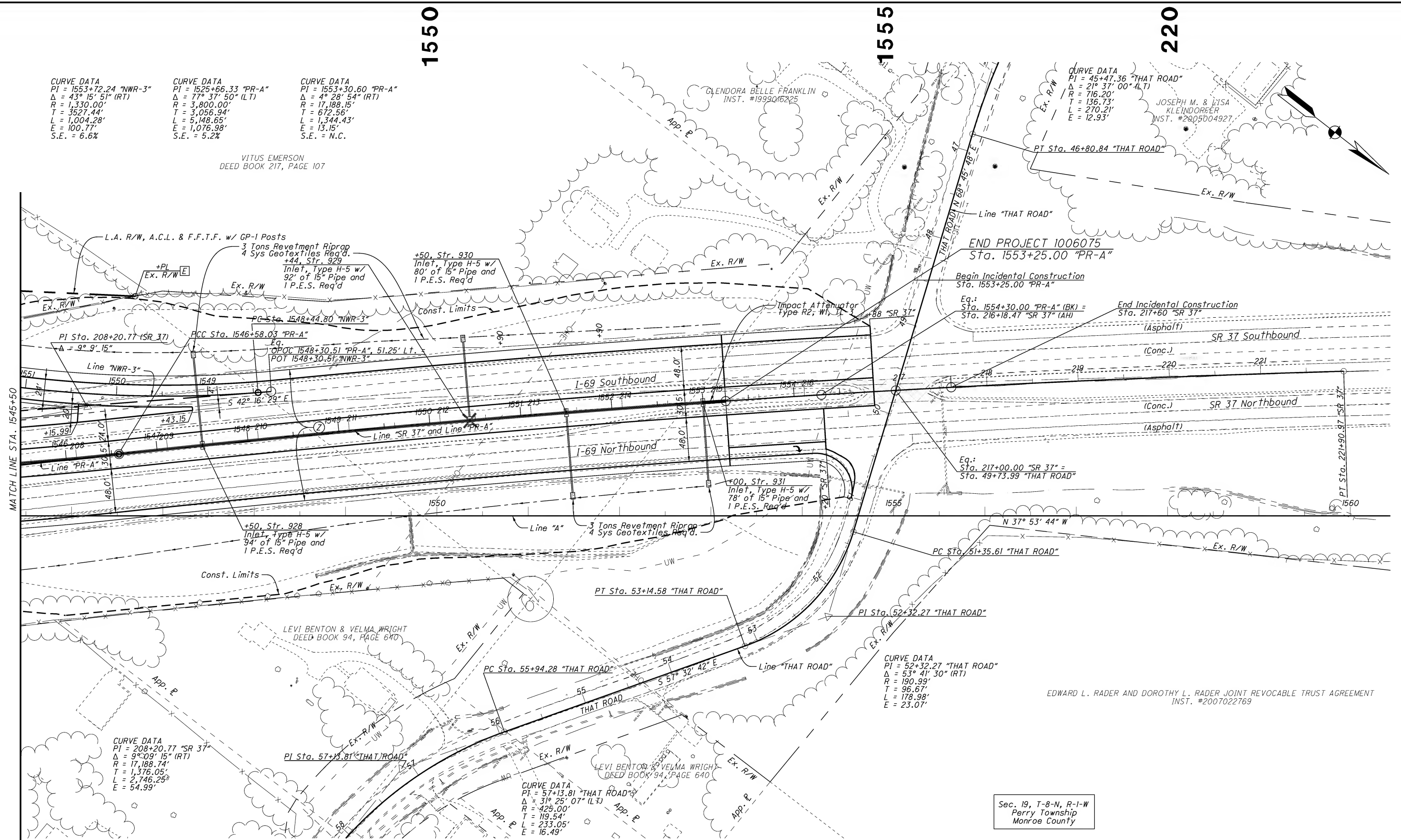
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P.O.C. Sta. 1553+25.00 "PR-A"

CURVE DATA  
PI = 1553+72.24 "NWR-3"  
Δ = 43° 15' 51" (RT)  
R = 1,330.00'  
T = 3527.44'  
L = 1,004.28'  
E = 100.77'  
S.E. = 6.6%

CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 77° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.94'  
L = 5,148.65'  
E = 1,076.98'  
S.E. = 5.2%

CURVE DATA  
PI = 1553+30.60 "PR-A"  
Δ = 4° 28' 54" (RT)  
R = 17,188.15'  
T = 672.56'  
L = 1,344.43'  
E = 13.15'  
S.E. = N.C.

VITUS EMERSON  
DEED BOOK 217, PAGE 107



Note:  
All R/W on this sheet to be as shown.

All R/W on this sheet described from  
Line "A" except as noted.

Line "PR-A" to be constructed.

LEGEND

② See Typical Sections for Construction Materials

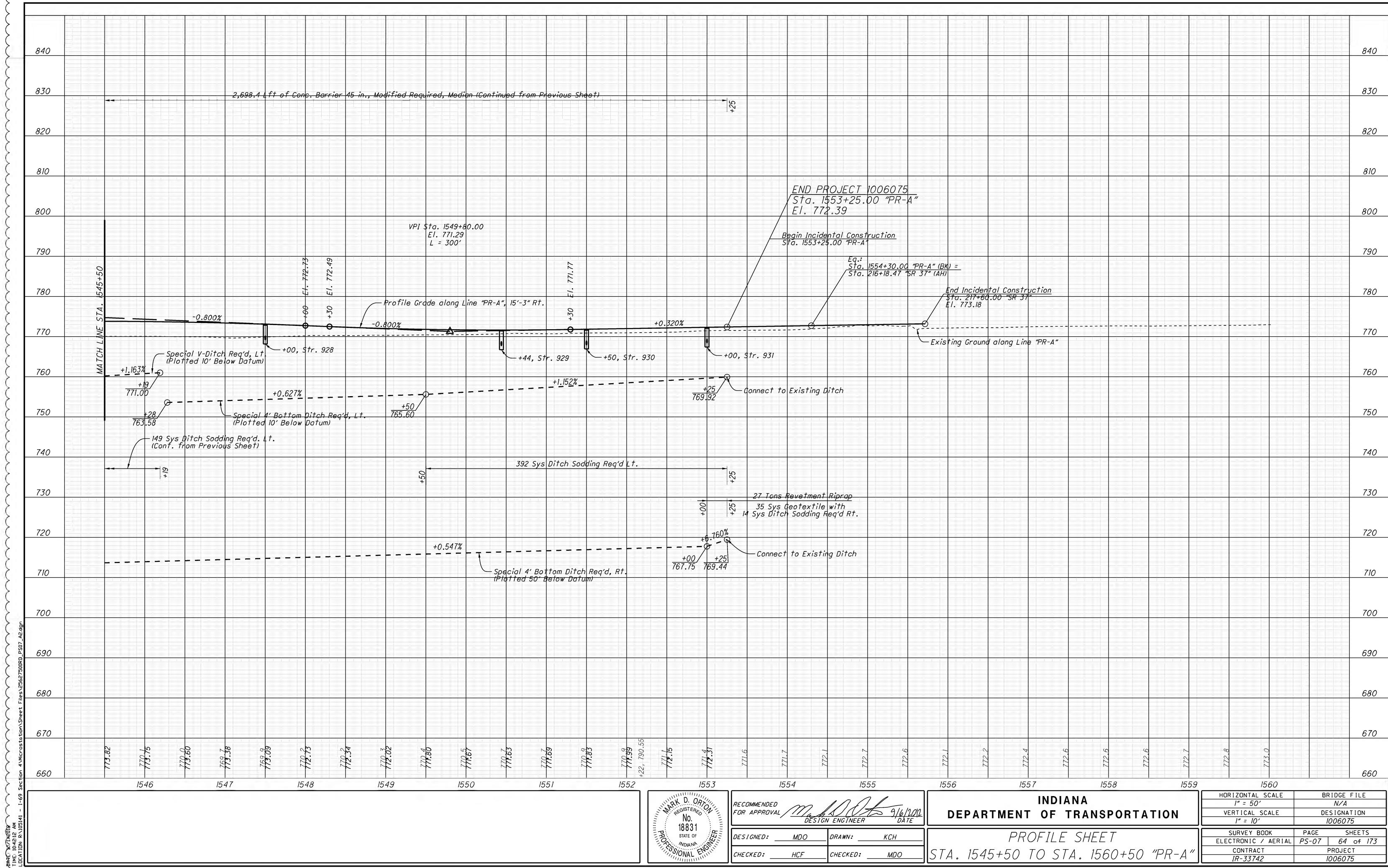


RECOMMENDED FOR APPROVAL	<i>M. D. Orton</i>	DATE 9/6/10	
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
STA. 1545+50 TO STA. 1560+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-07
CONTRACT IR-33742	SHEETS 63 of 173
	PROJECT 1006075





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LOCATION: R:\1006075\1006075.dwg

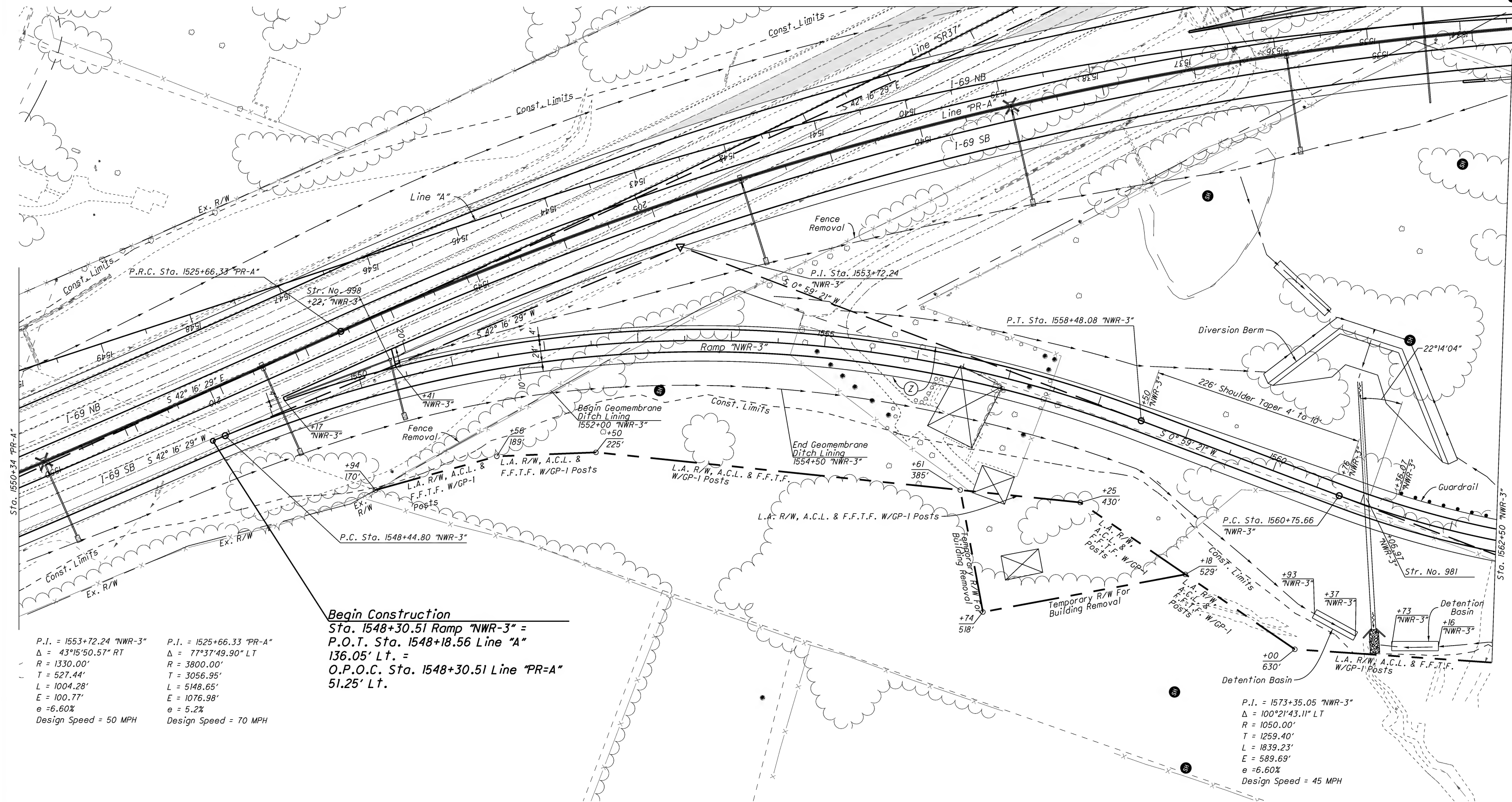
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773.82	773.75	773.60	769.38	773.09	772.73	772.34	772.02	771.80	771.67	771.63	771.69	771.83	771.99	772.05



RECOMMENDED FOR APPROVAL	DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO	DATE: 9/6/10

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PROFILE SHEET  
STA. 1545+50 TO STA. 1560+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-07
CONTRACT IR-33742	SHEETS 64 of 173
	PROJECT 1006075



P.I. = 1553+72.24 "NWR-3"  
 $\Delta = 43^\circ 15' 50.57''$  RT  
 $R = 1330.00'$   
 $T = 527.44'$   
 $L = 1004.28'$   
 $E = 100.77'$   
 $e = 6.60\%$   
 Design Speed = 50 MPH

P.I. = 1525+66.33 "PR-A"  
 $\Delta = 77^\circ 37' 49.90''$  LT  
 $R = 3800.00'$   
 $T = 3056.95'$   
 $L = 5148.65'$   
 $E = 1076.98'$   
 $e = 5.2\%$   
 Design Speed = 70 MPH

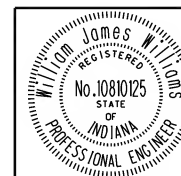
**Begin Construction**  
 Sta. 1548+30.51 Ramp "NWR-3" =  
 P.O.T. Sta. 1548+18.56 Line "A"  
 136.05' Lt. =  
 O.P.O.C. Sta. 1548+30.51 Line "PR-A"  
 51.25' Lt.

P.I. = 1573+35.05 "NWR-3"  
 $\Delta = 100^\circ 21' 43.11''$  LT  
 $R = 1050.00'$   
 $T = 1259.40'$   
 $L = 1839.23'$   
 $E = 589.69'$   
 $e = 6.60\%$   
 Design Speed = 45 MPH

Notes:  
 All R/W On This Sheet To Be As Shown  
 All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted  
 Limited Access R/W Requirements To Apply Where Indicated  
 See Sheet 149 For Korst Features Legend And Table

#### Legend

- Building Removal, By Others
  - See Typical Sections For Construction Materials
  - Concrete Pavement Removal
- For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	<i>William Jones</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**PLAN SHEET**  
**RAMP "NWR-3"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-08
CONTRACT IR-33742	SHEETS 65 of 173
	PROJECT 1006075

DATE: 10/3/2012  
 TIME: 10:44:48 AM  
 LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\SR37 Plan and Profiles\Sheets\25627500\PP01-SR.dgn

9/25/12 - Revised Ditches and Drainage  
 9/25/12 - Updated Notes And Labels

P.I. = 528+91.78 "SEL-3"  
Δ = 3°00'00.26" RT  
R = 2864.72'  
T = 75.02'  
L = 150.00'  
E = 0.98'  
e = 2.2%  
Design Speed = 55 MPH

P.I. = 531+42.68 "SEL-3"  
Δ = 78°34'50" RT  
R = 215.00'  
T = 175.91'  
L = 294.87'  
E = 62.80'  
e = 8.0%  
Design Speed = 55 MPH

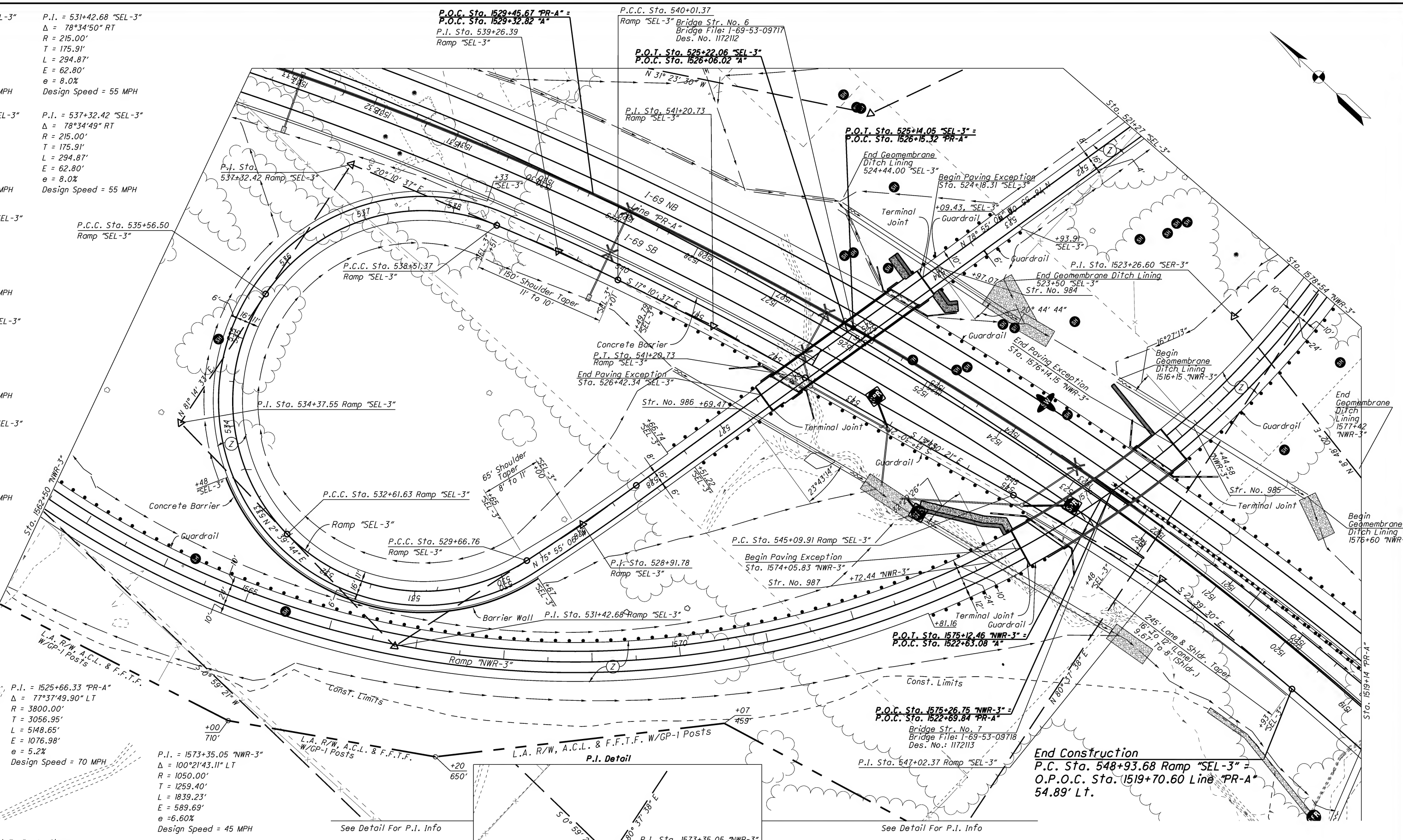
P.I. = 534+37.55 "SEL-3"  
Δ = 78°34'49" RT  
R = 215.00'  
T = 175.91'  
L = 294.87'  
E = 62.80'  
e = 8.0%  
Design Speed = 55 MPH

P.I. = 537+32.42 "SEL-3"  
Δ = 78°34'49" RT  
R = 215.00'  
T = 175.91'  
L = 294.87'  
E = 62.80'  
e = 8.0%  
Design Speed = 55 MPH

P.I. = 539+26.39 "SEL-3"  
Δ = 3° 00' 00" (RT)  
R = 2864.72'  
T = 75.02'  
L = 150.00'  
E = 0.98'  
e = 2.0%  
Design Speed = 55 MPH

P.I. = 541+20.73 "SEL-3"  
Δ = 3° 40' 16" (RT)  
R = 3724.25'  
T = 119.36'  
L = 238.63'  
E = 1.91'  
e = 5.2%  
Design Speed = 55 MPH

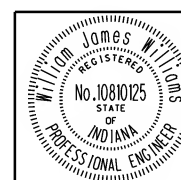
P.I. = 547+02.37 "SEL-3"  
Δ = 10° 50' 51" (RT)  
R = 2027.04'  
T = 192.46'  
L = 383.77'  
E = 9.12'  
e = 5.2%  
Design Speed = 55 MPH



Note:  
All R/W On This Sheet To Be As Shown  
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted  
Limited Access R/W Requirements To Apply Where Indicated  
See Sheet 149 For Karst Features Legend And Table

- Legend
- Building Removal, By Others
  - See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120  
For Bridge Information See:  
Des. No. 117212  
Des. No. 117213



RECOMMENDED FOR APPROVAL  
DESIGNED: JB  
CHECKED: RT  
DRAWN: ETD  
CHECKED: WJW  
DATE: 9/4/2012

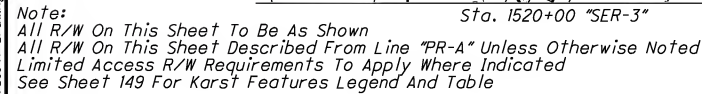
INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
RAMPS "NWR-3" "SEL-3"

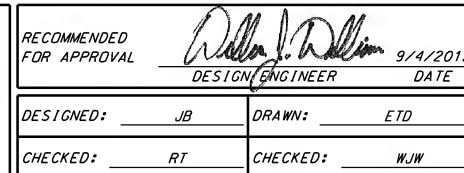
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 1006075
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-09
CONTRACT IR-33742	SHEETS 66 of 173
	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels  
9/25/12 - Revised Guardrail





For Drainage Structure Information See Detail Sheets 117-120



HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	PP-10	67 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

P.I. STA=510+90.32 "NER-3"  
 $\Delta = 19^\circ 38' 03''$  LT  
 $R = 1500.00'$   
 $T = 259.55'$   
 $L = 514.02'$   
 $E = 22.29'$   
 $e = 5.4\%$   
Design Speed = 45 MPH

P.I. = 151+62.71 "SR37"  
 $\Delta = 41^\circ 56' 00.00''$  (LT)  
 $R = 4,297.18'$   
 $T = 1,646.67'$   
 $L = 3,145.00'$   
 $E = 304.70'$

**Begin Construction**  
P.O.T. Sta. 501+00.00 "NER-3" =  
O.P.O.C. Sta. 167+00.35 Line "SR37"  
37.11 Rt.

**Begin Incidental Construction**  
P.O.T. Sta. 500+00.00 Ramp "NER-3" =  
O.P.O.C. Sta. 166+00.91 Line "SR37"  
37.05 Rt.

**End Incidental Construction**  
P.O.T. Sta. 1599+69.39 Ramp "NWR-3" =  
O.P.O.C. Sta. 165+99.89 Line "SR 37"  
36.36 Lt.

**End Construction**  
P.O.T. Sta. 1597+85.14 "NWR-3" =  
O.P.O.C. Sta. 167+00.37 Line "SR 37"  
36.82 Lt.

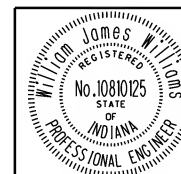
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 $\Delta = 50^\circ 40' 13.97''$  RT  
 $R = 1250.00'$   
 $T = 591.81'$   
 $L = 1105.46'$   
 $E = 133.02'$   
 $e = 6.00\%$   
Design Speed = 45 MPH

Note:  
All R/W On This Sheet To Be As Shown  
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted  
Limited Access R/W Requirements To Apply Where Indicated  
See Sheet 149 For Karst Features Legend And Table

Legend

- ☒ Building Removal,  
By Others
- ☒ See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i> DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET RAMPS "NER-3" "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-II
CONTRACT IR-33742	SHEETS 68 of 173
	PROJECT 1006075



P.I. = 1525+66.33 "PR-A"  
Δ = 77°37'49.90" LT  
R = 3800.00'  
T = 3056.95'  
L = 5148.65'  
E = 1076.98'  
e = 5.2%  
Design Speed = 70 MPH

P.I. = 1522+94.22 "A"  
Δ = 71°30'58.11" LT  
R = 4000.00'  
T = 2880.44'  
L = 4992.77'  
E = 929.19'  
e = 5.2%  
Design Speed = 70 MPH

Bridge Str. No. 6  
Bridge File: I-69-53-0717  
Des. No. 1172112

Begin Paving Exception  
Sta. 524+18.31 "SEL-3"

Sta. 1525+48 "PR-A"

Ramp "SEL-3"

Str. No. 981  
06.97

P.O.C. Sta. 1529+45.67 "PR-A" =  
P.O.C. Sta. 1529+32.82 "A"

P.I. Sta. 523+75.16 Ramp "NER-3"

N 68° 19' 48" W

N 31° 23' 30" W

19°41'54"

Ramp "NER-3"

Str. No. 982 +43.53

P.T. Sta. 530+12.09 Ramp "NER-3"

+34  
"PR-A"

+92  
"NER-3"

+99  
"PR-A"

+08  
"NER-3"

Maintain Existing Ditch

S 42° 16' 29" E

SR 37 SB

Line "SR37"

N 48° 41' 45" W

SR 37 NB

Const. Limits

Maintain Existing Ditch

Ex. R/W

P.I. STA=523+75.16 "NER-3"  
Δ = 36°56'18" RT  
R = 2050.00'  
T = 684.69'  
L = 1321.62'  
E = 111.32'  
e = 4.4%  
Design Speed = 45 MPH

Existing "SR37" SB

Existing "SR37" NB

Grade To Drain  
@ 20:1

Grade To Drain  
@ 20:1

Existing "SR37"

Section A-A

End Construction

P.O.T. Sta. 533+08.07 Ramp "NER-3" =  
O.P.O.C. Sta. 1536+38.12 Line "A"  
34.85 Rt.  
O.P.O.C. Sta. 1536+47.73 Line "PR-A"  
55.26 Rt.

Remove Pipe

Note:  
All R/W On This Sheet To Be As Shown  
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted  
Limited Access R/W Requirements To Apply Where Indicated  
See Sheet 149 For Karst Features Legend And Table

- Legend
- Building Removal, By Others
  - See Typical Sections For Construction Materials
  - Concrete Pavement Removal

For Drainage Structure Information See Detail Sheets 117-120

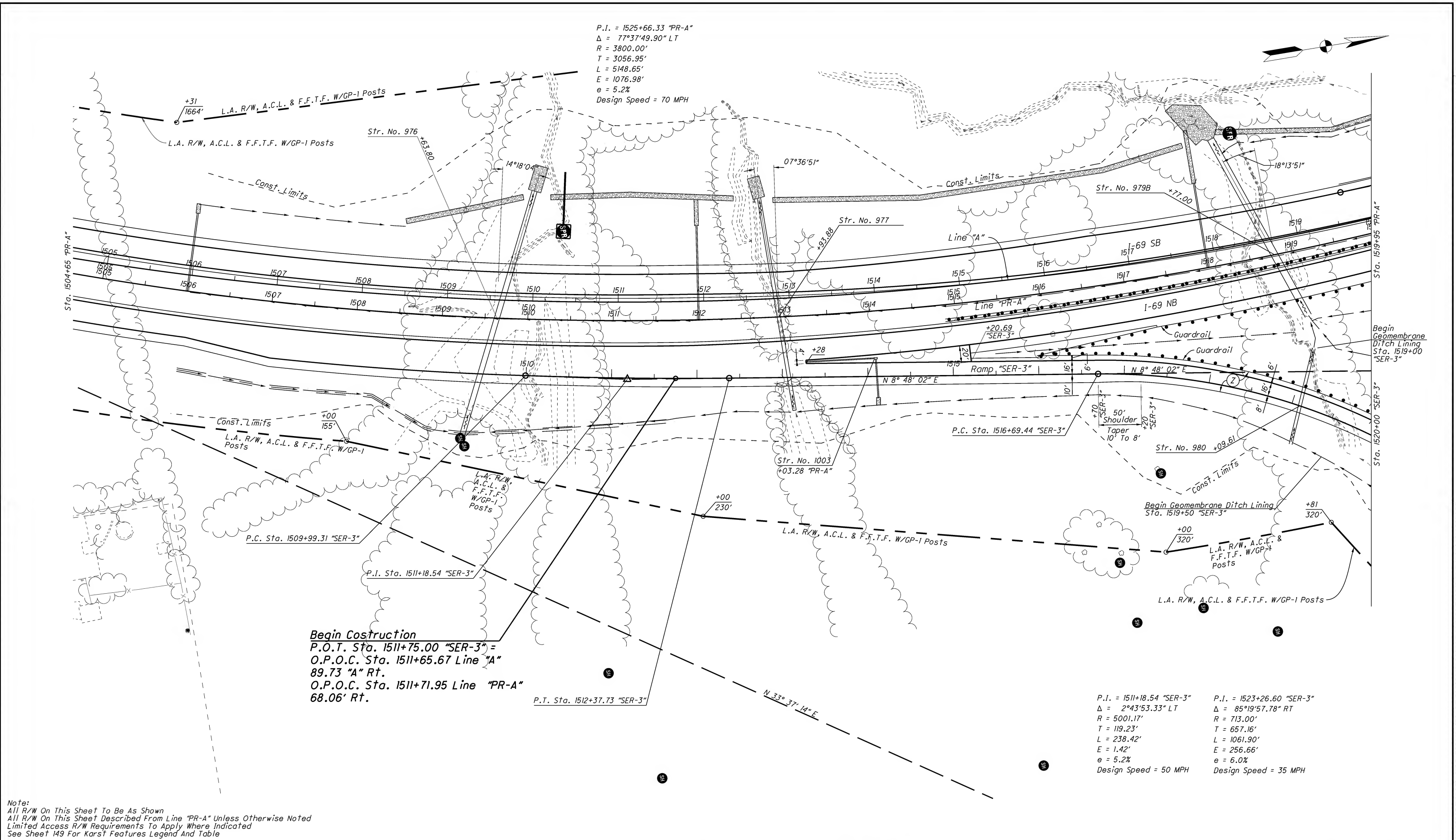


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	9/4/2012
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN SHEET RAMP "NER-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE DESIGNATION 1006075
VERTICAL SCALE N/A	PAGE PP-12
SURVEY BOOK ELECTRONIC / AERIAL	SHEETS 69 of 173
CONTRACT IR-33742	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels  
9/25/12 - Added Detail



Note:  
All R/W On This Sheet To Be As Shown  
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted  
Limited Access R/W Requirements To Apply Where Indicated  
See Sheet 149 For Karst Features Legend And Table

**Legend**

- ☒ Building Removal, By Others
- ☒ See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120

Professional Engineer Seal: William James Williams, No. 10810125, State of Indiana

RECOMMENDED FOR APPROVAL

DESIGNED: JB    DRAWN: ETD    DATE: 9/4/2012

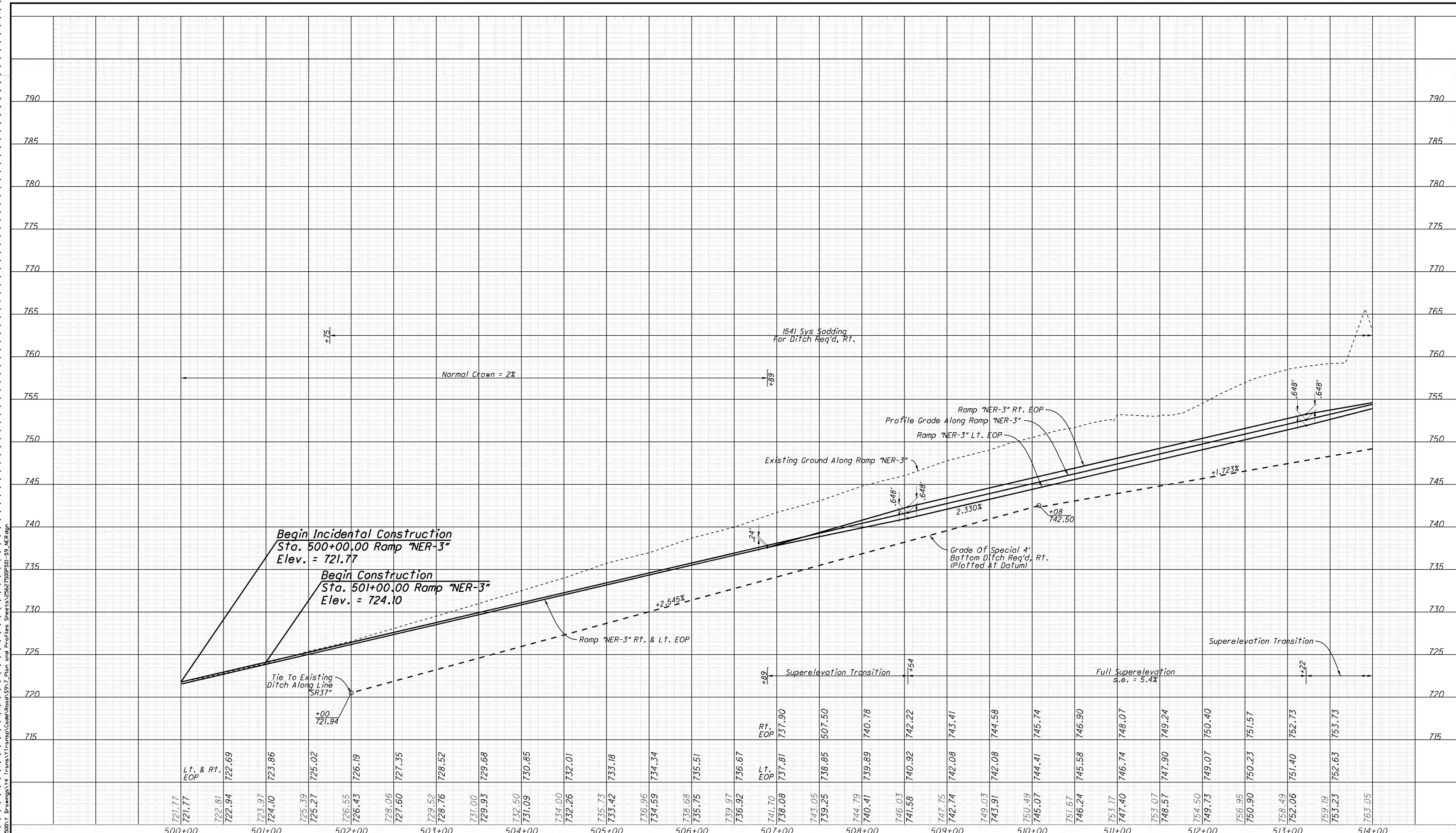
CHECKED: RT    CHECKED: WJW

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
RAMP "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-13
CONTRACT IR-33742	SHEETS 70 of 173
	PROJECT 1006075

DATE: 10/3/2012  
PROJECT: N-3749-97-001  
LOCATION: N-3749-97-001  
DRAWING: N-3749-97-001  
SHEET: 71 of 173



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RECOMMENDED  
FOR APPROVAL

DESIGNED: JB  
CHECKED: RT

DRAWN: ETD  
CHECKED: WJW

9/4/2012  
DATE

INDIANA  
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET  
STA. 500+00 TO 514+00 "NER-3"

HORIZONTAL SCALE  
1" = 50'

VERTICAL SCALE  
1" = 5'

BRIDGE FILE

DESIGNATION  
1006075

SURVEY BOOK  
ELECTRONIC / AERIAL  
CONTRACT  
IR-33742

PAGE  
PS-08

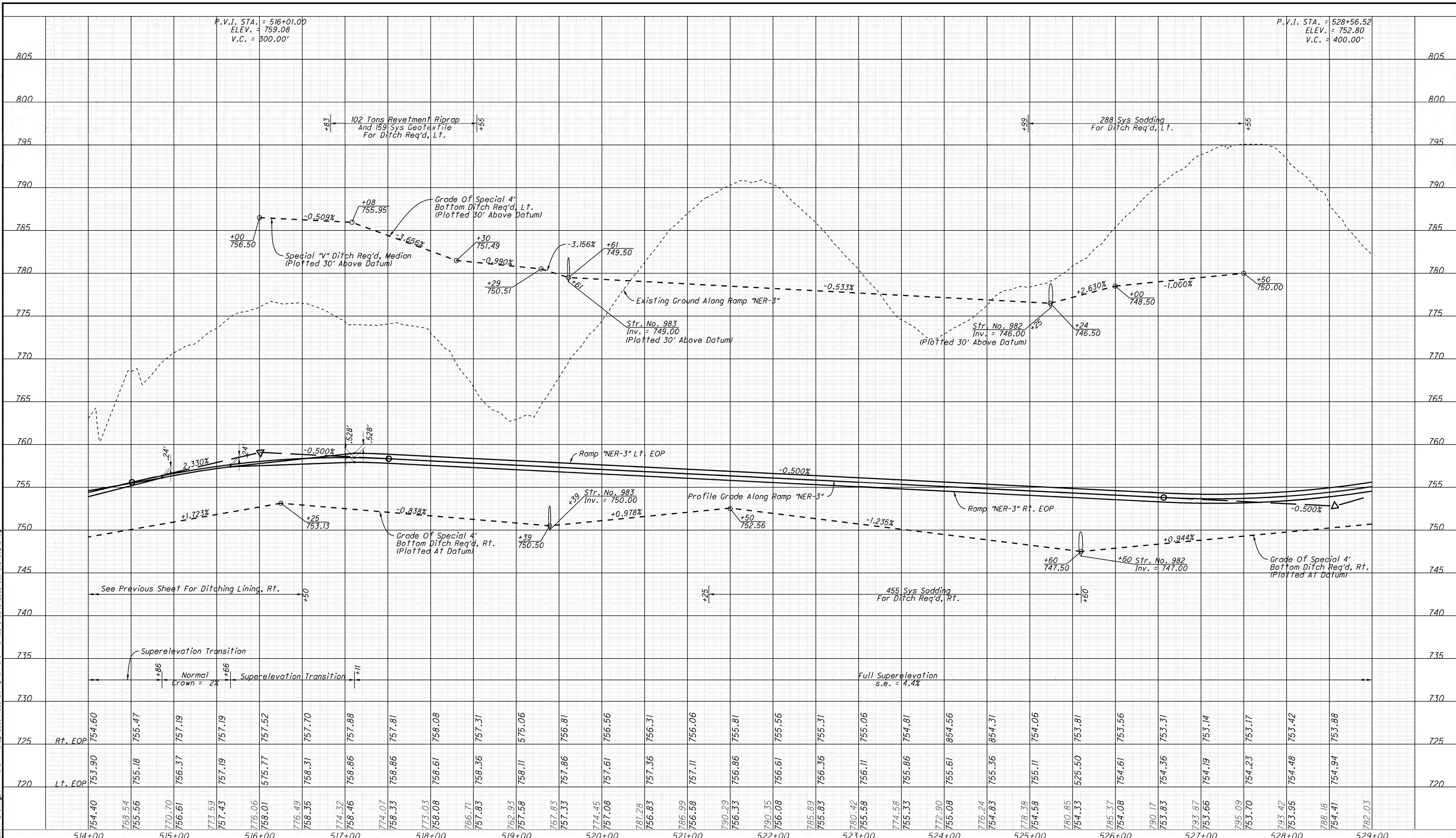
SHEETS  
71 of 173

PROJECT  
1006075



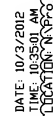
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DATE: 10/3/2012  
PROJECT: N-1081025-010  
LOCATION: N-1081025-010  
DRAWING: N-1081025-010



	RECOMMENDED FOR APPROVAL	DESIGNED: JB	DRAWN: ETD
	DATE: 9/4/2012	CHECKED: RT	CHECKED: WJW
	INDIANA DEPARTMENT OF TRANSPORTATION		
	PROFILE SHEET STA. 514+00 TO 529+00 "NER-3"		

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-09
CONTRACT IR-33742	SHEETS 72 of 173
PROJECT 1006075	



RECOMMENDED FOR APPROVAL		9/4/2012
DESIGN ENGINEER		DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

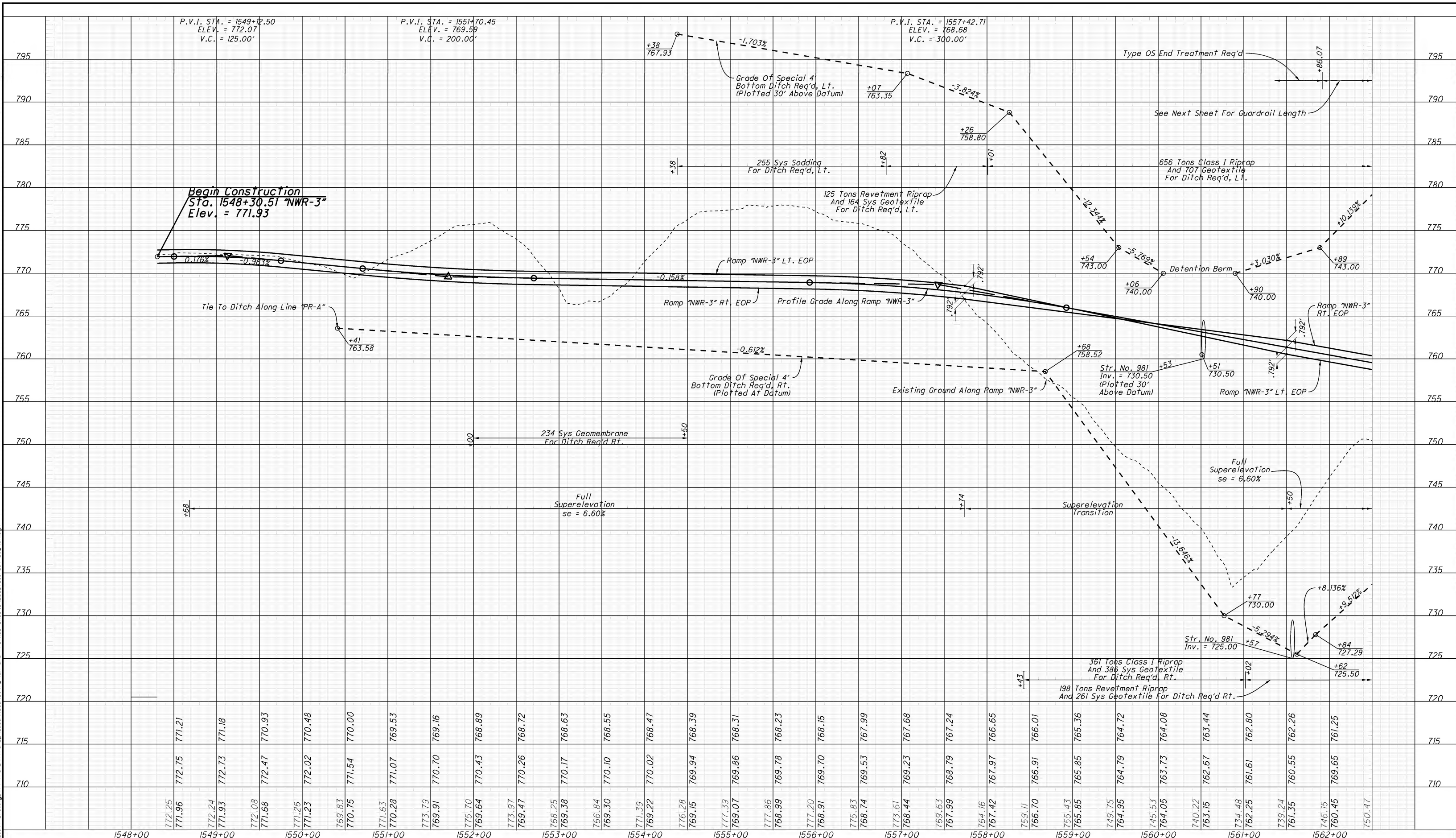
PROFILE SHEET  
STA. 529+00 TO 534+00 "NER-3"

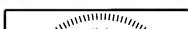

9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels

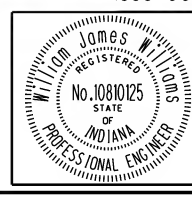


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DATE: 10/3/2012  
DRAWN: JWB  
LOCATION: N Projects\25627500\Drawings\4 Transp\Road\Road\5917 Plan and Profiles\Sheets\25627500PS04-S9 NWR.dgn



		RECOMMENDED FOR APPROVAL  9/4/2012 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 50'	BRIDGE FILE	
		DESIGNED: <u>JB</u> DRAWN: <u>ETD</u>	PROFILE SHEET STA. 1548+00 TO 1562+50 "NWR-3"	VERTICAL SCALE 1" = 5'	DESIGNATION 1006075	
		CHECKED: <u>RT</u> CHECKED: <u>WJW</u>		SURVEY BOOK ELECTRONIC / AERIAL	PAGE P5-II	SHEETS 74 of 173
				CONTRACT IR-33742	PROJECT 1006075	



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

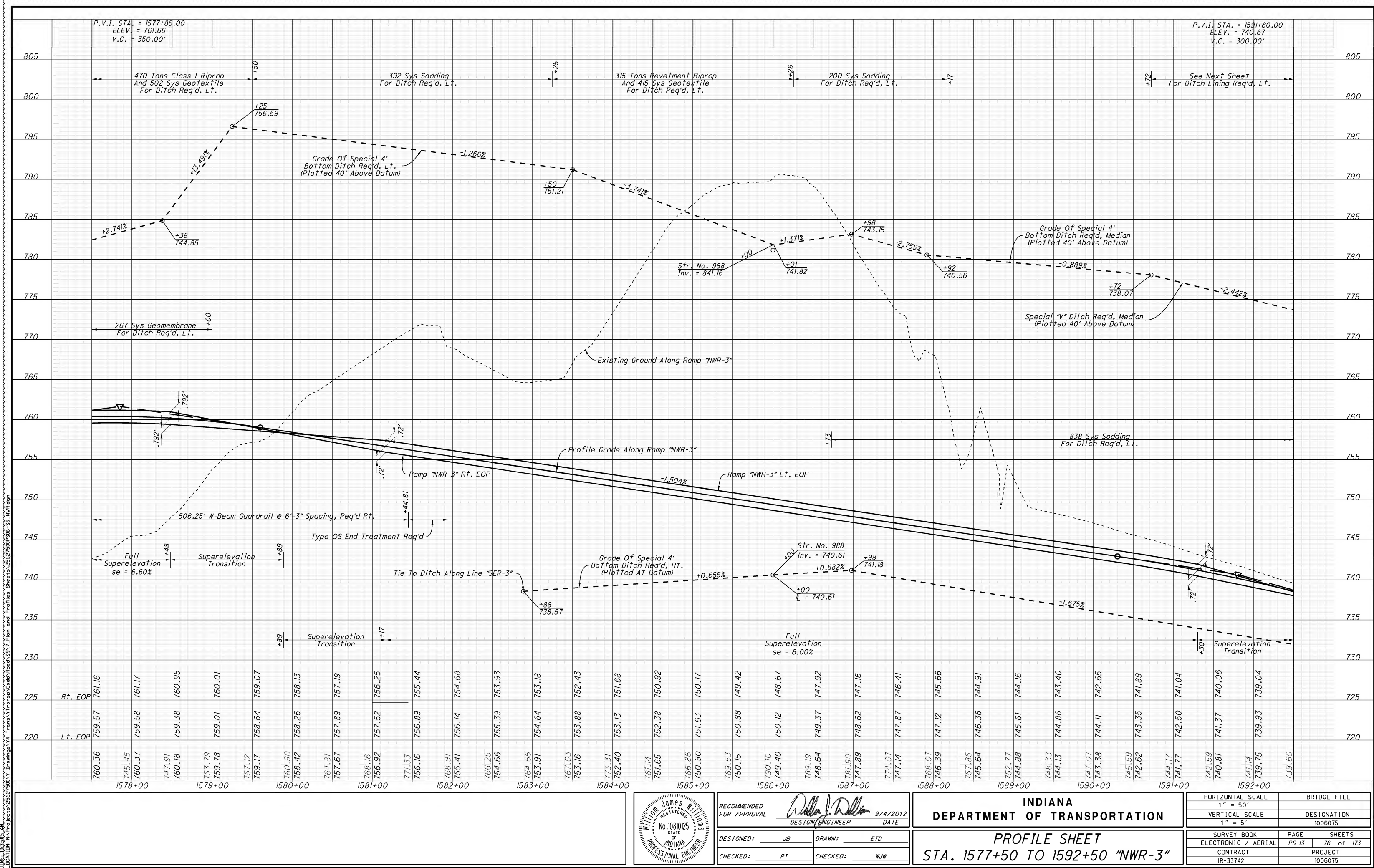
INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE SHEET STA. 1548+00 TO 1562+50 "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-II
CONTRACT IR-33742	SHEETS 74 of 173
	PROJECT 1006075





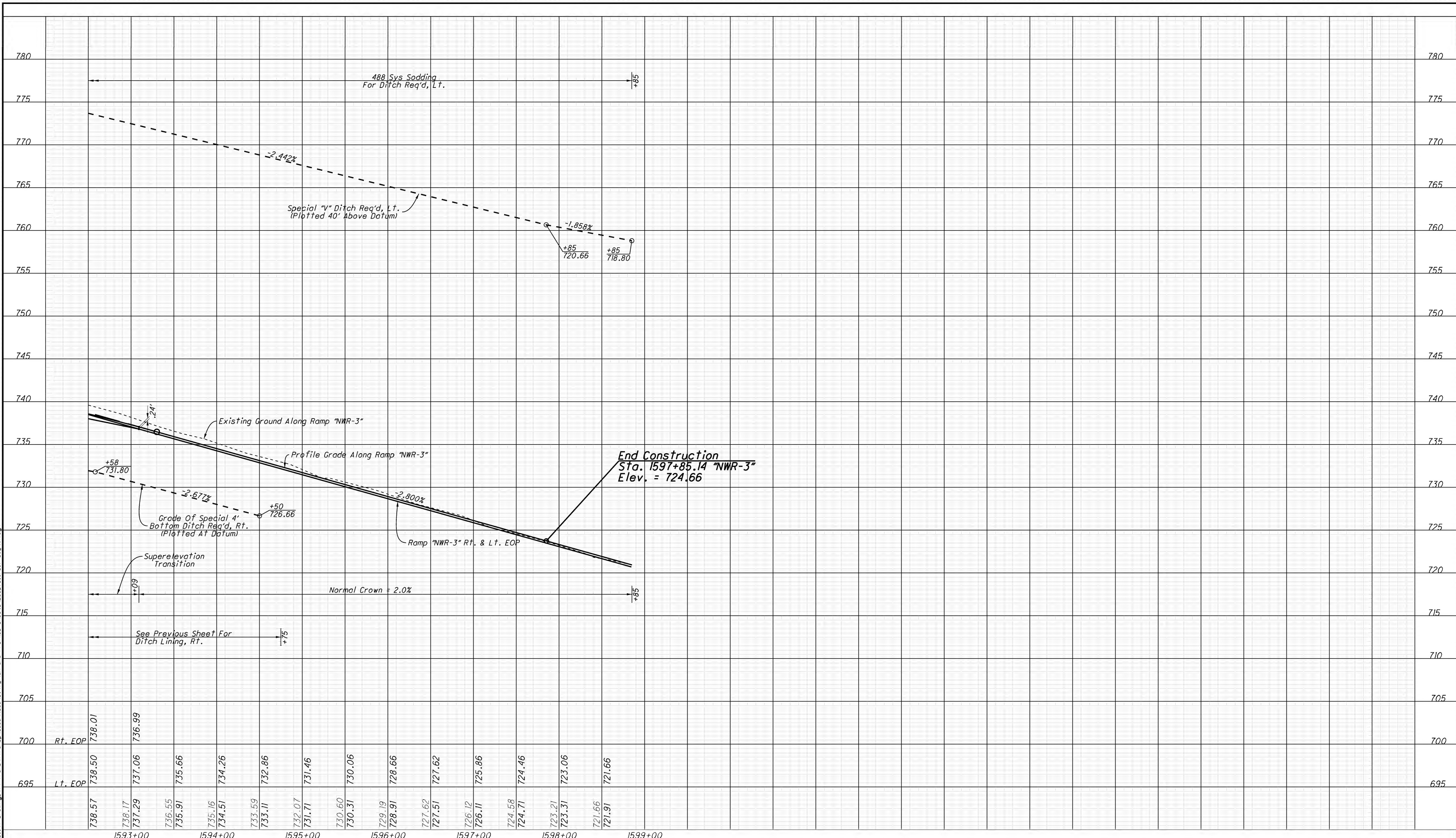
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9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels



DATE: 10/3/2012  
TIME: 10:35:06 AM  
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\S917\_Plan and Profile Sheets\25627500PS07-S9 NWR.dgn



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE SHEET STA. 1592+50 TO 1599+00 "NWR-3"

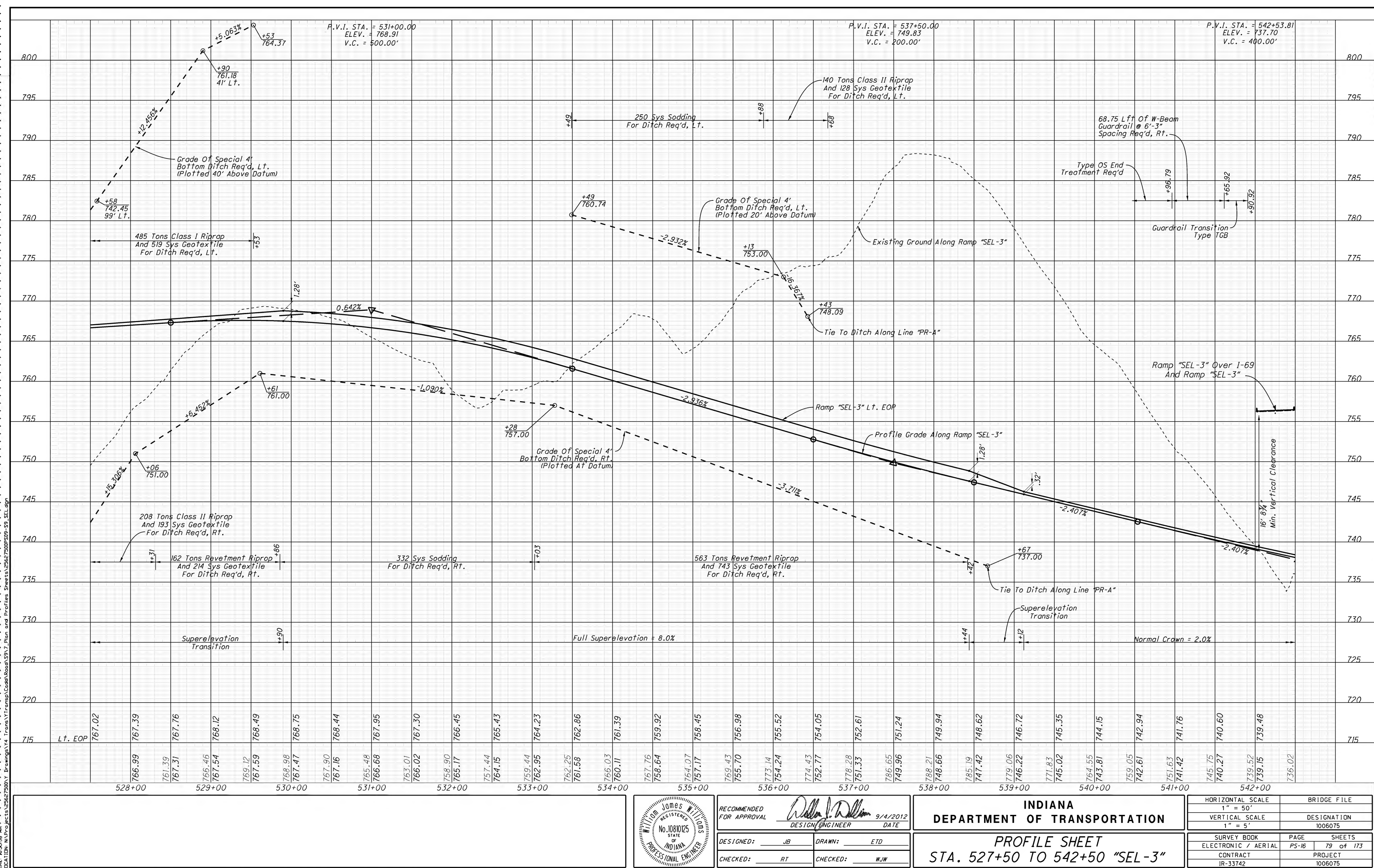
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-14
CONTRACT IR-33742	SHEETS 77 of 173
	PROJECT 1006075



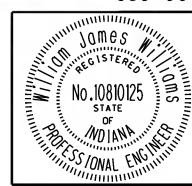


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DATE: 10/3/2012  
FIRM: NCDOT  
LOCATION: N-Project 25627500Y Drawings V4 Transp.Cadd.Road.S917 Plan and Profiles Sheets 25627500P-S9-S9 SEL-3



9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

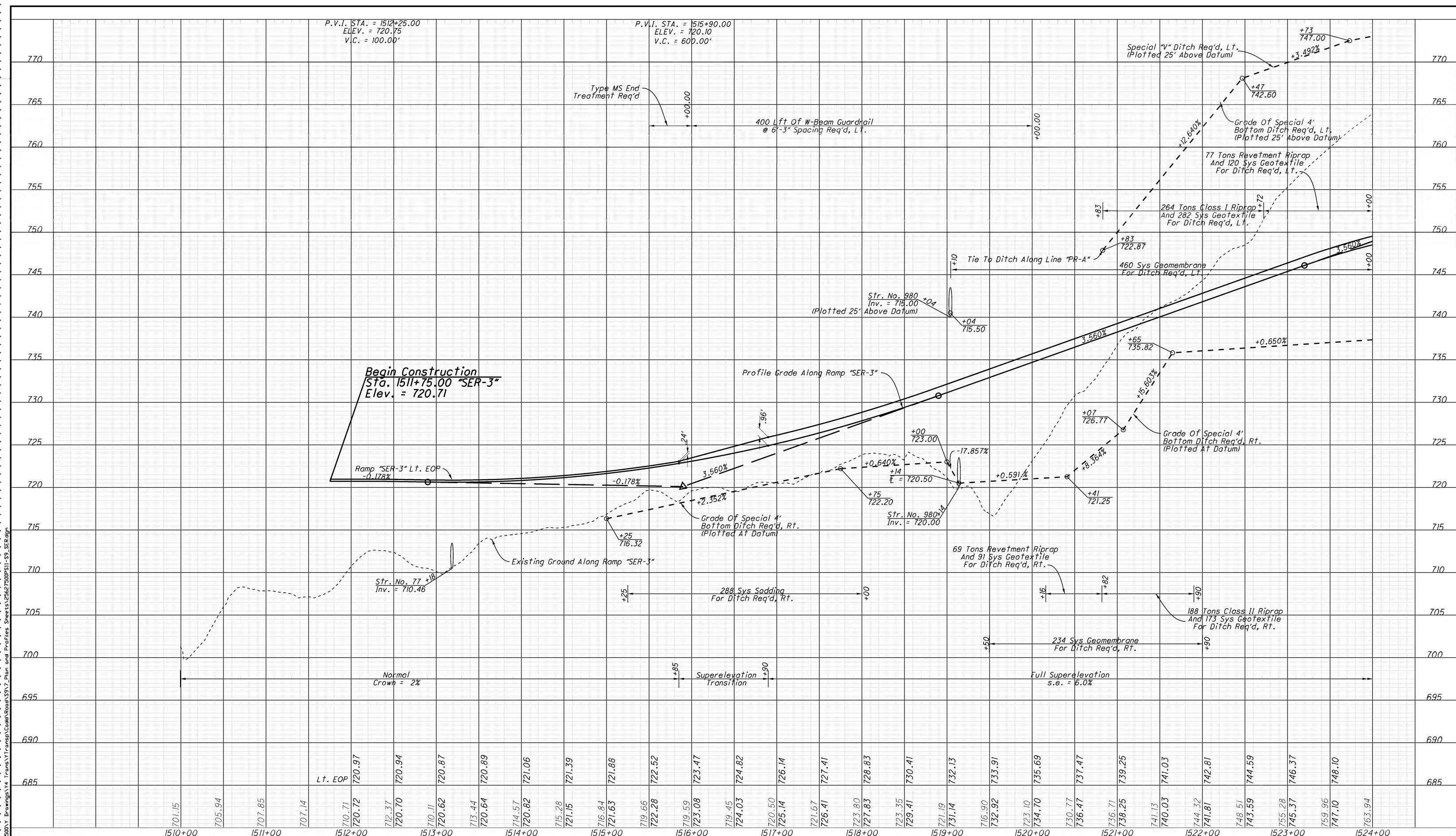
INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE SHEET STA. 527+50 TO 542+50 "SEL-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-16
CONTRACT IR-33742	SHEETS 79 of 173
	PROJECT 1006075





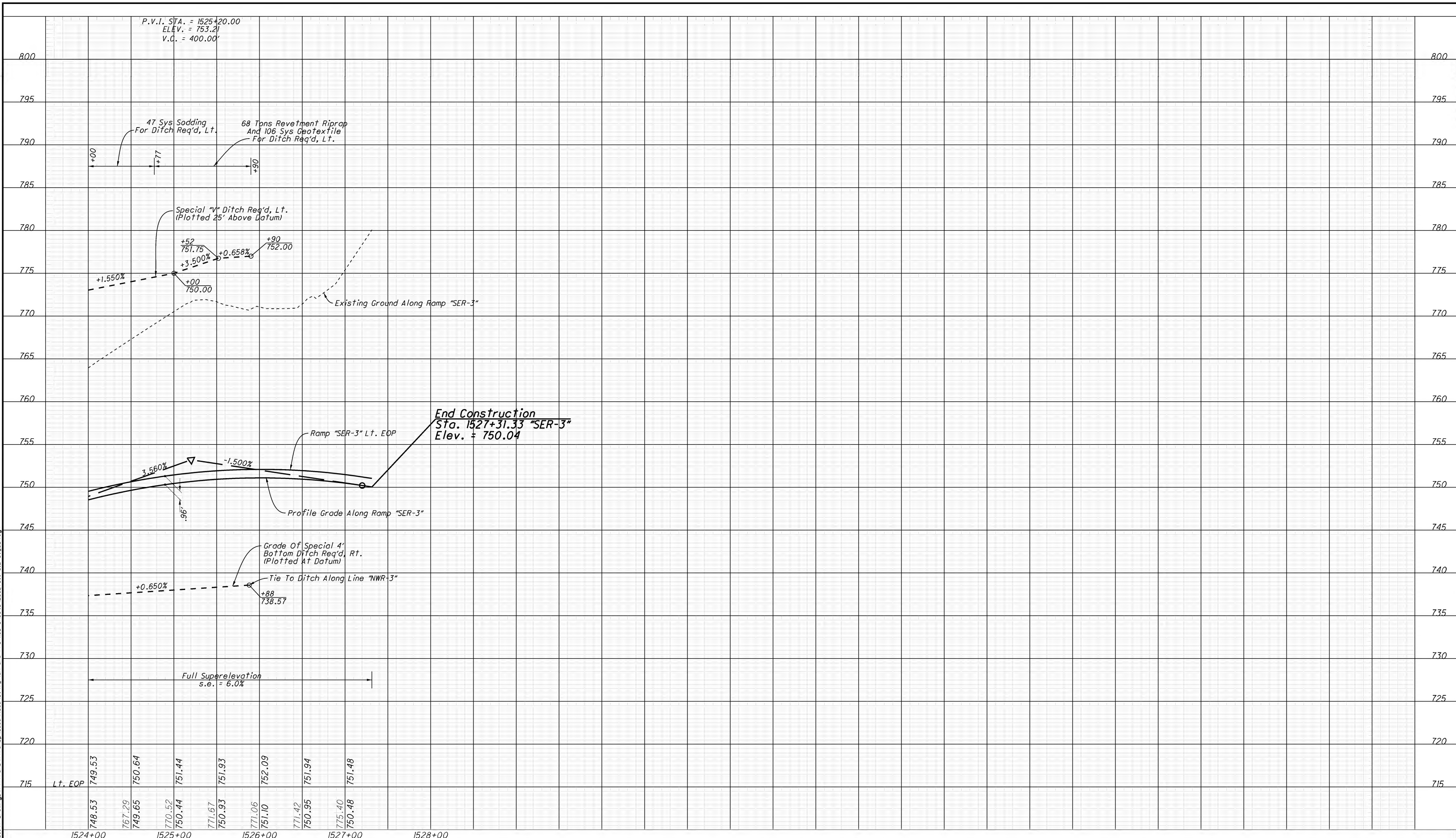
DATE: 10/3/2012  
DRAWN: JWB  
LOCATION: N-Project\25627500\Drawings\4 Transp\Road\Road\SS9\7 Plan and Profiles Sheets\25627500PS11-59 SS9.dgn



	RECOMMENDED FOR APPROVAL	DESIGNED: JB	DRAWN: ETD	<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>  <b>PROFILE SHEET</b> <b>STA. 1510+00 TO 1524+00 "SER-3"</b>	HORIZONTAL SCALE 1" = 50'	BRIDGE FILE	
	DATE: 9/4/2012	CHECKED: RT	CHECKED: WJW		VERTICAL SCALE 1" = 5'	DESIGNATION 1006075	
					SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-18	SHEETS 81 of 173
					CONTRACT IR-33742	PROJECT 1006075	

1

DATE: 10/3/2012  
PROJECT: N-33742-1A  
LOCATION: N-33742-1A  
DRAWING: N-33742-1A  
SHEET: 82 of 173

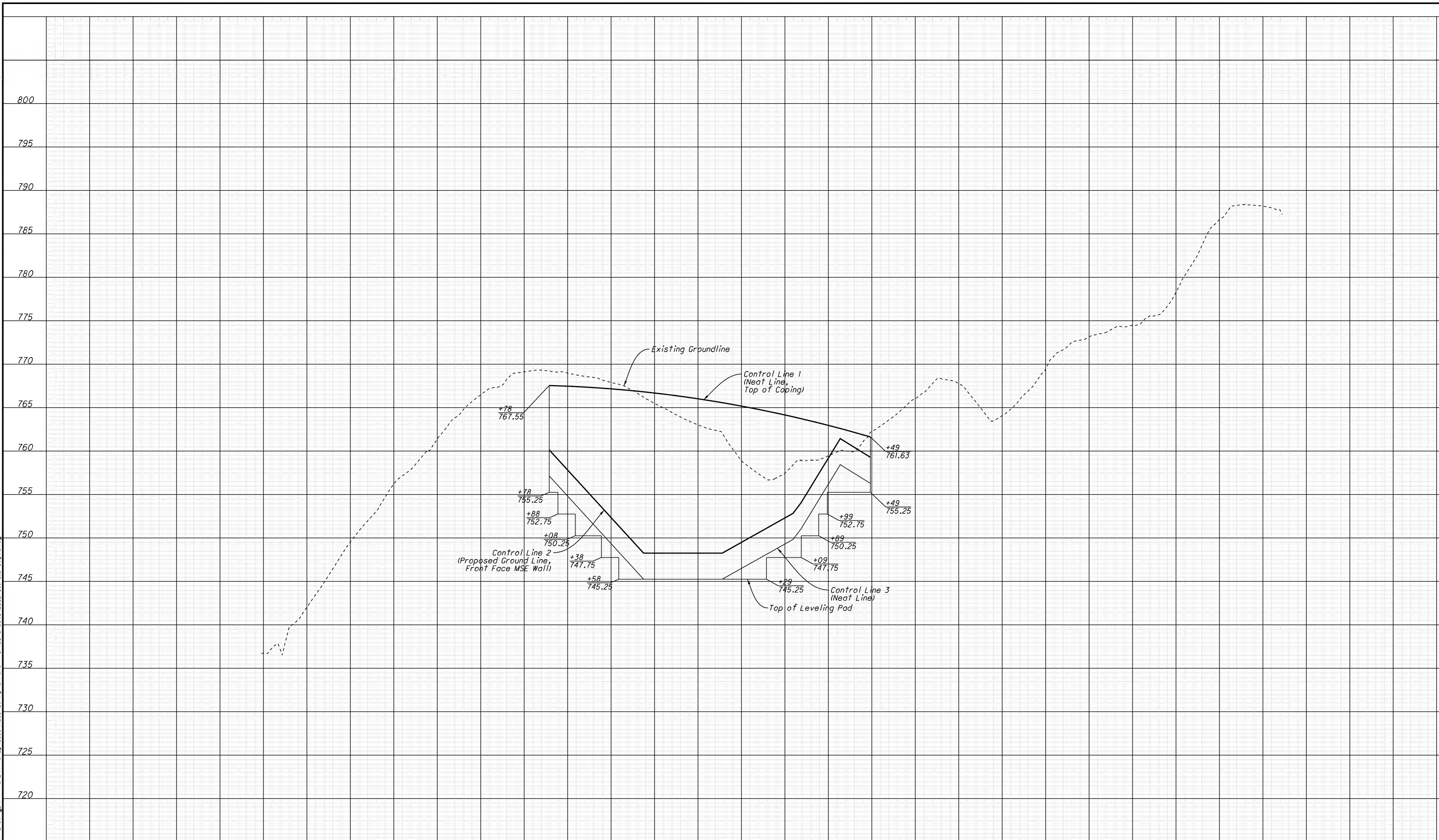


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

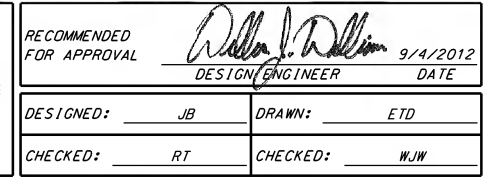
INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE SHEET STA. 1524+00 TO 1528+00 "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-19
CONTRACT IR-33742	SHEETS 82 of 173
	PROJECT 1006075





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HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'		
VERTICAL SCALE	DESIGNATION	
1" = 5'	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	PS-20	83 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

Monument Type "B" Req'd  
P.O.T. Sta. 17+30.00 "BOLIN LANE"

Monument Type "B" Req'd  
P.O.T. Sta. 22+00.00 "BOLIN LANE"

15

20

25

Jurisdictional Stream  
Unnamed Tributary  
of Clear Creek

CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 77° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.94'  
L = 5,148.65'  
S.E. = 5.2%  
Design Speed = 70 m.p.h.

CURVE DATA  
PI = 1522+94.22 "A"  
Δ = 71° 30' 58" (LT)  
R = 4,000.00'  
T = 2,880.44'  
L = 4,992.77'  
E = 929.19'

MARY MABEL ELLIS HANE  
DEED BOOK 269, PAGE 263

FARMERS FIELD SUBDIVISION PHASE 3  
PLAT CABINET C, ENVELOPE 295

STUART T. HILL &  
RITA J. HILL  
DEED BOOK 364, PAGE 448

JEFFERY L. DUFF  
INST #2005023170

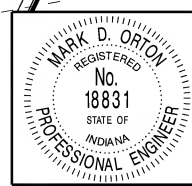
THRASHER ACRES SUBDIVISION  
PLAT CABINET C, ENVELOPE 155

ROLLING GLEN  
SUBDIVISION PHASE 3  
PLAT CABINET C,  
ENVELOPE 339

Sec. 30, T-8-N, R-1-W  
Perry Township  
Monroe County

- Roadway Removal

For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN SHEET	
STA. 12+00 TO STA. 28+00 "BOLIN LANE"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-14
CONTRACT IR-33742	SHEETS 84 of 173
	PROJECT 1006075

CURVE DATA  
PI = 8+41.56 "Glenview Drive"  
Δ = 38° 49' 46" (RT)  
R = 250.00'  
T = 88.11'  
L = 169.43'  
E = 15.07'

CURVE DATA  
PI = 10+94.31 "Glenview Drive"  
Δ = 23° 21' 45" (LT)  
R = 250.00'  
T = 51.69'  
L = 101.94'  
E = 5.29'

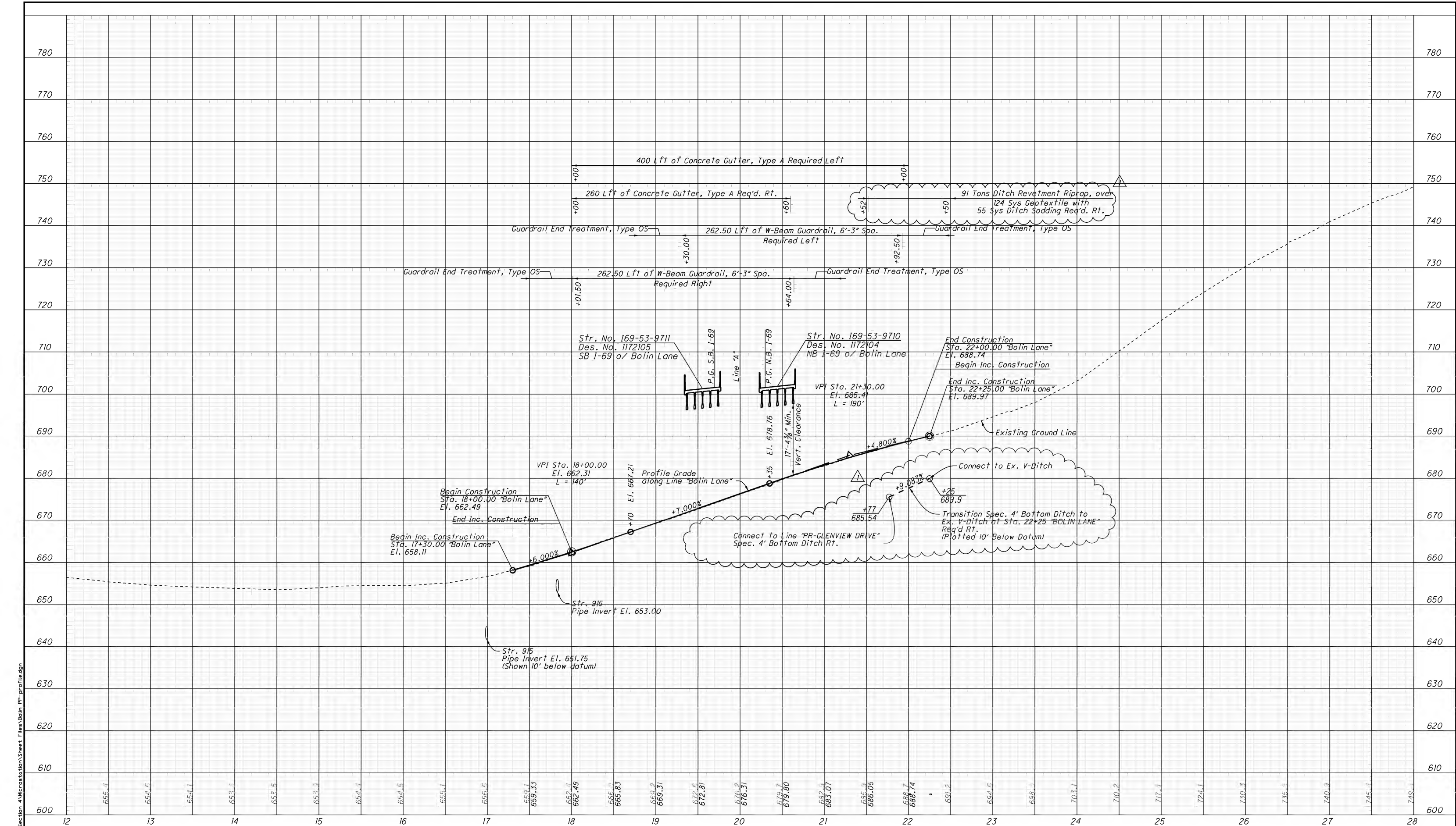
Note:  
All R/W on this sheet to be as shown.  
All R/W on this sheet described from  
Line "A" except as noted.  
Line "Bolin Lane" to be constructed.

LEGEND	
Begin L.A. R/W	
End L.A. R/W	
Sinkhole	
Spring	
See Typical Sections for Construction Materials	

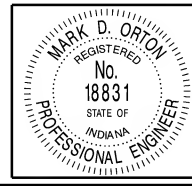
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TIME: 10:42:14 AM  
LOCATION: MONROE COUNTY

09/25/12 - Miscellaneous revisions





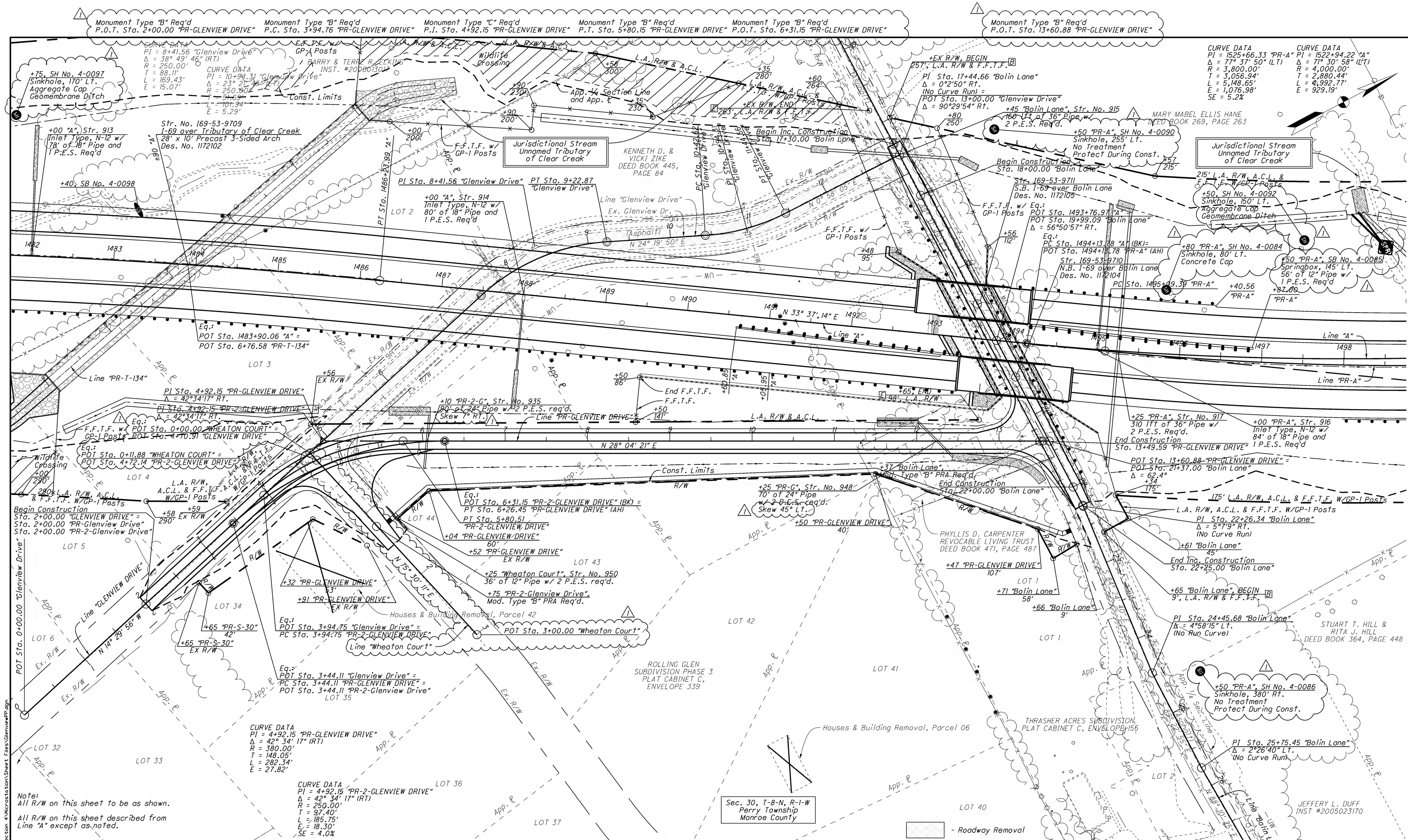
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RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET STA. 12+00 TO STA. 28+00 "BOLIN LANE"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-21
CONTRACT IR-33742	SHEETS 85 of 173
	PROJECT 1006075



**LEGEND**

- Begin L.A. R/W
- End L.A. R/W
- SH Sinkhole
- SPR Spring
- See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.  
For Spring Box Details See Sheet 103.

PR-G = PR-Glenview Drive  
PR-2-G = PR-2-Glenview Drive

**MARK D. ORTON**  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

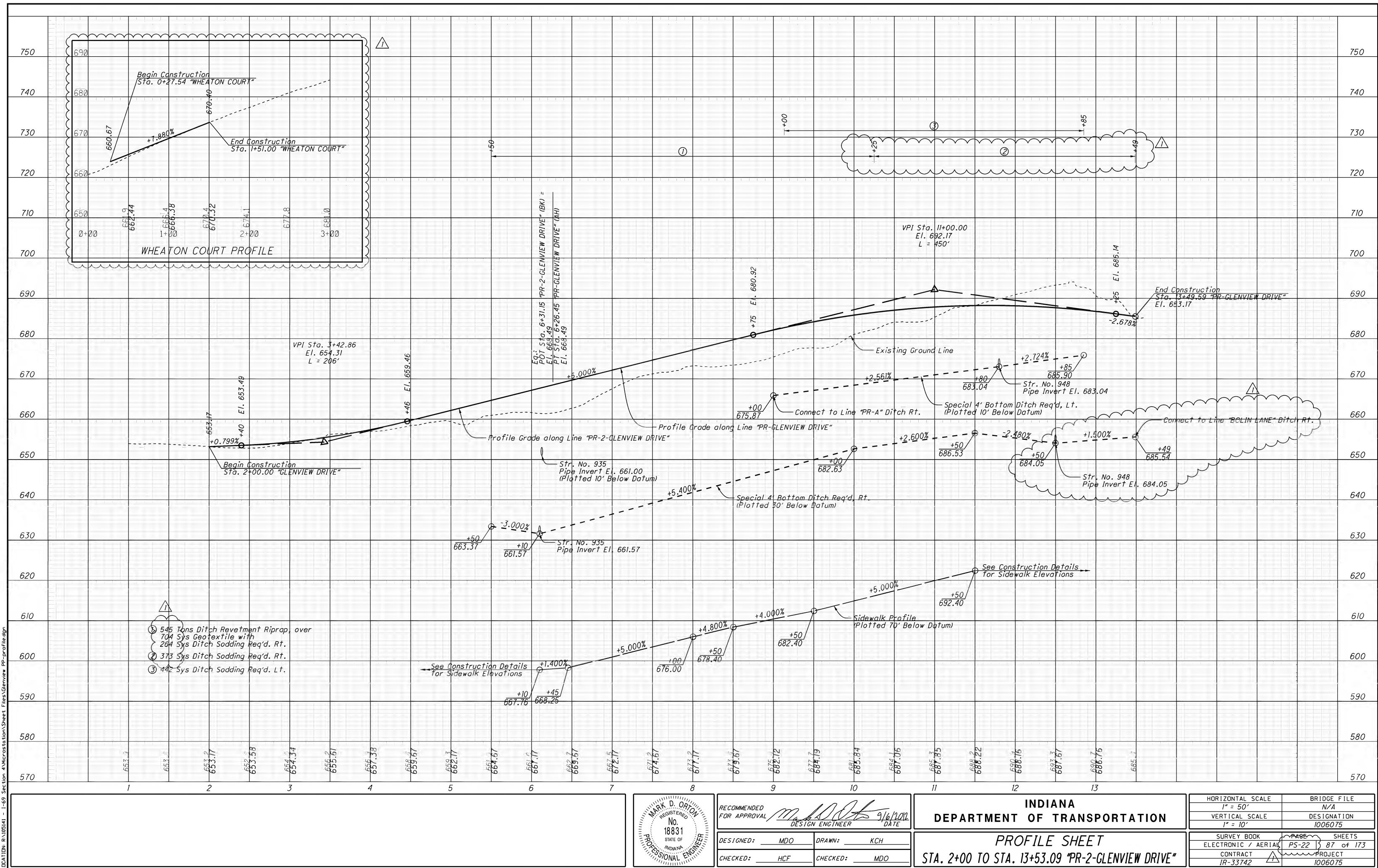
DESIGNED: MDO  
DRAWN: KCH  
CHECKED: HCF  
CHECKED: MDO

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**  
**STA. 2+00 TO STA. 13+60.88 "PR-2-GLENVIEW DRIVE"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-15
CONTRACT IR-33742	SHEETS 86 of 173 PROJECT 1006075

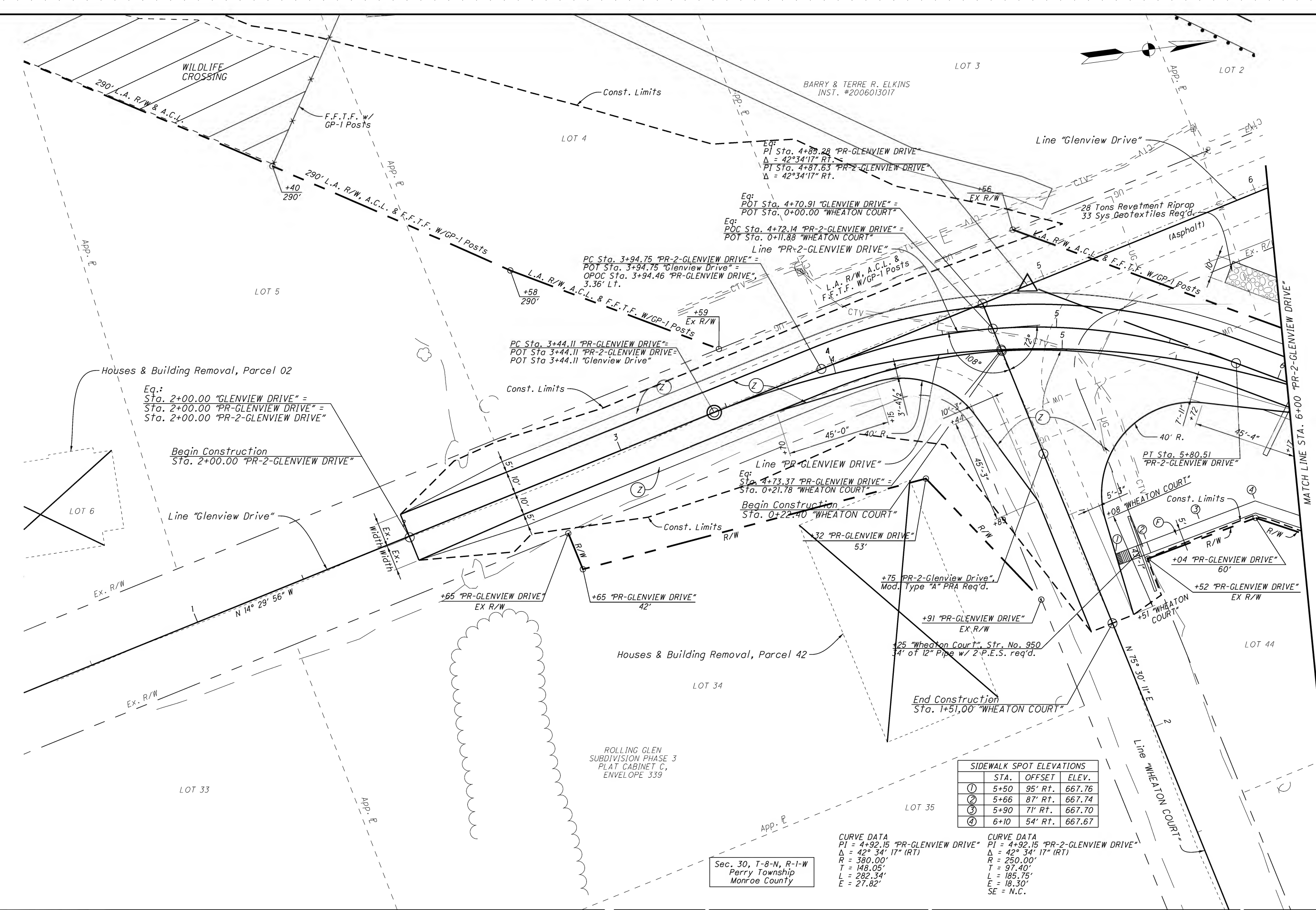








DATE: 10/12/12  
TIME: 10:42:19 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\20062700RD\_CD03\_S9.dgn



SIDEWALK SPOT ELEVATIONS		
	STA.	OFFSET
①	5+50	95' RT.
②	5+66	87' RT.
③	5+90	71' RT.
④	6+10	54' RT.

CURVE DATA  
PI = 4+92.15 "PR-2-GLENVIEW DRIVE"  
Δ = 42° 34' 17" (RT)  
R = 380.00'  
T = 148.05'  
L = 282.34'  
E = 27.82'

CURVE DATA  
PI = 4+92.15 "PR-2-GLENVIEW DRIVE"  
Δ = 42° 34' 17" (RT)  
R = 250.00'  
T = 97.40'  
L = 185.75'  
E = 18.30'  
SE = N.C.

All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "A" except as noted.  
Line "PR-2-GLENVIEW DRIVE" to be constructed.  
② See Typical Section for Construction Materials ③ Concrete Sidewalk (4")

Do Not Disturb Trees

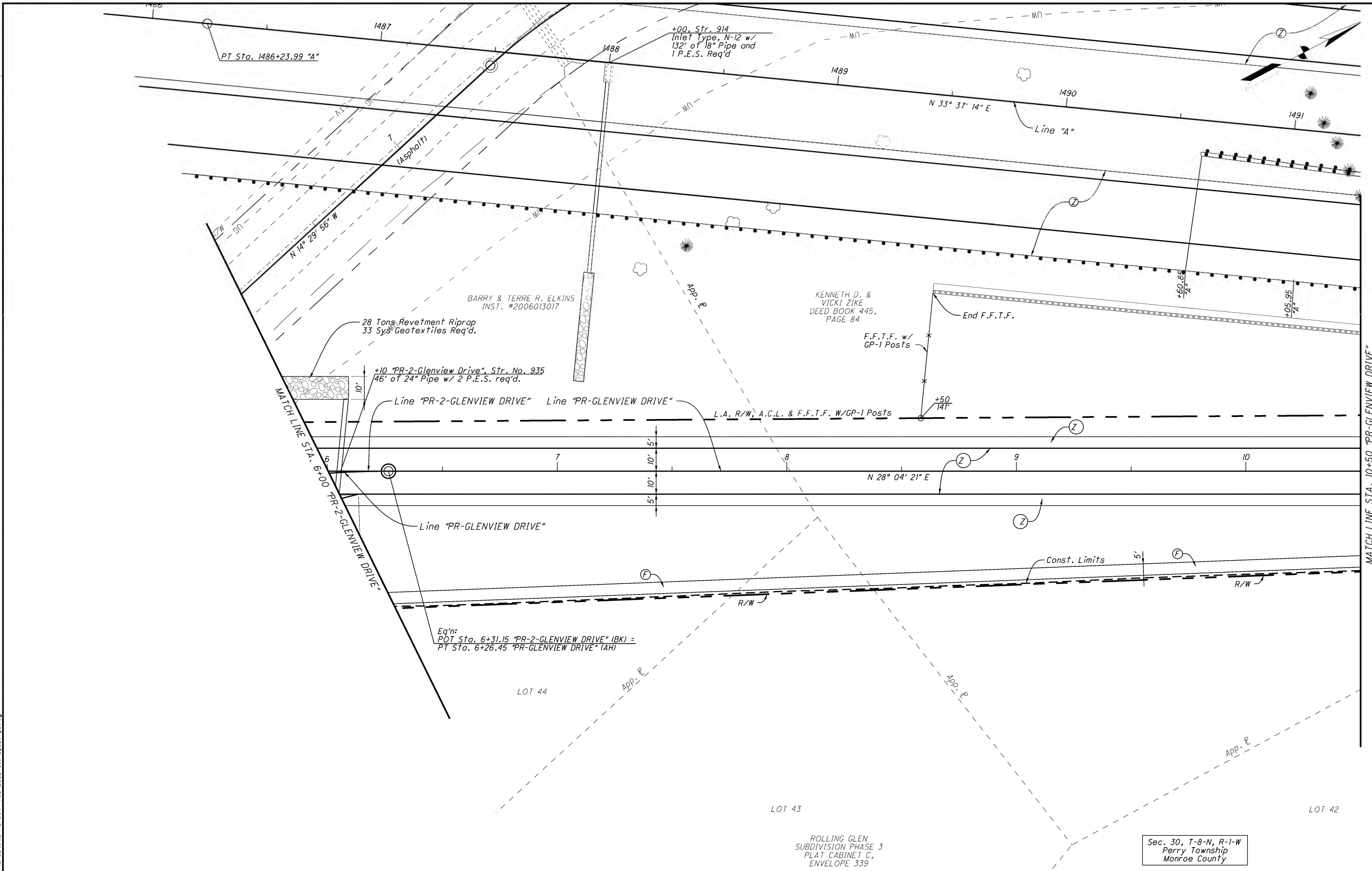


RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE: 9/6/10  
DESIGNED: MDO  
DRAWN: BDM  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION DETAILS  
STA. 0+00 TO STA. 6+00 "PR-2-GLENVIEW DRIVE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-03
CONTRACT IR-33742	SHEETS 94 of 173
	PROJECT 1006075

DATE: 10/12/12  
TIME: 10:42:20 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\20062700RDL CD04\_S9.dgn



All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "A" except as noted.  
Line "PR-GLENVIEW DRIVE" to be constructed.  
② See Typical Section for Construction Materials    ③ Concrete Sidewalk (4")



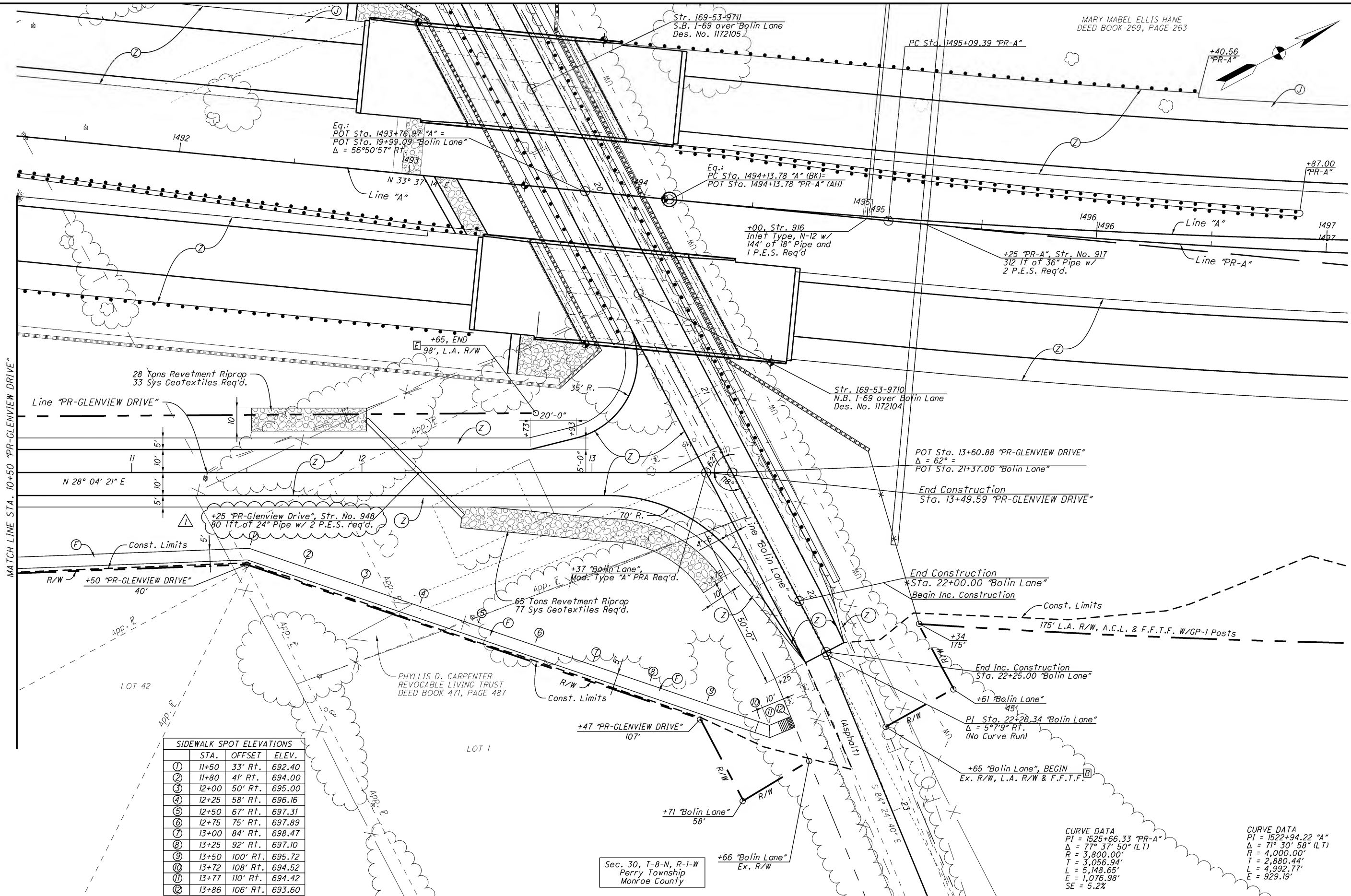
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DESIGNED: MDO		DRAWN: BDM			
CHECKED: HCF		CHECKED: MDO			

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
CONSTRUCTION DETAILS  
STA. 6+00 TO STA. 11+00 "PR-GLENVIEW DRIVE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-04
CONTRACT IR-33742	SHEETS 95 of 173
	PROJECT 1006075



DATE: 10/12/12  
TIME: 10:42:21 AM  
LOCATION: R:\03141 - I-69 Section 4\MicroStation\Sheet Files\20062700RD CD05.S9.dgn



SIDEWALK SPOT ELEVATIONS		
STA.	OFFSET	ELEV.
11+50	33' Rt.	692.40
11+80	41' Rt.	694.00
12+00	50' Rt.	695.00
12+25	58' Rt.	696.16
12+50	67' Rt.	697.31
12+75	75' Rt.	697.89
13+00	84' Rt.	698.47
13+25	92' Rt.	697.10
13+50	100' Rt.	695.72
13+72	108' Rt.	694.52
13+77	110' Rt.	694.42
13+86	106' Rt.	693.60

Sec. 30, T-8-N, R-1-W  
Perry Township  
Monroe County

CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 77° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.94'  
L = 5,148.65'  
E = 1,076.98'  
SE = 5.2%

CURVE DATA  
PI = 1522+94.22 "A"  
Δ = 71° 30' 58" (LT)  
R = 4,000.00'  
T = 2,880.44'  
L = 4,992.77'  
E = 929.19'

All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "A" except as noted.  
Line "PR-GLENVIEW DRIVE" to be constructed.  
② See Typical Section for Construction Materials (F) Concrete Sidewalk (4")



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE: 9/6/10  
DESIGNED: MDO  
DRAWN: BDM  
CHECKED: HCF  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION DETAILS  
STA. 10+50 TO STA. 13+53.09 "PR-GLENVIEW DRIVE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-05
CONTRACT IR-33742	SHEETS 96 of 173
	PROJECT 1006075

CURVE DATA  
PI = 1553+30.60 "PR-A"  
Δ = 4° 28' 54" (RT)  
R = 17,188.15'  
T = 672.56'  
L = 1,344.43'  
E = 13.15'  
S.E. = N.C.

END PROJECT 1006075\*  
Sta. 1553+25.00 "PR-A"

Begin Incidental Construction  
Sta. 1553+25.00 "PR-A"

Eq.:  
Sta. 1554+30.00 "PR-A" (BK) =  
Sta. 216+18.47 "SR 37" (AH)

Eq.:  
Sta. 217+00.00 "SR 37" =  
Sta. 49+73.99 "THAT ROAD"

End Incidental Construction  
Sta. 217+60 "SR 37"

CURVE DATA  
PI = 208+20.77 "SR 37"  
Δ = 9° 09' 15" (RT)  
R = 17,188.74'  
T = 1,376.05'  
L = 2,746.25'  
E = 54.99'

CURVE DATA  
PI = 52+32.27 "THAT ROAD"  
Δ = 53° 41' 30" (RT)  
R = 190.99'  
T = 96.67'  
L = 178.98'  
E = 23.07'



RECOMMENDED  
FOR APPROVAL

DESIGNED: MDO  
CHECKED: HCF

DRAWN: BDM  
CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
I-69, S.R. 37, AND THAT ROAD

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-06
CONTRACT IR-33742	SHEETS 98 of 173
	PROJECT 1006075

All R/W on this sheet to be as shown.

All R/W on this sheet described from  
Line "PR-A" except as noted.

② See Typical Section for Construction Materials

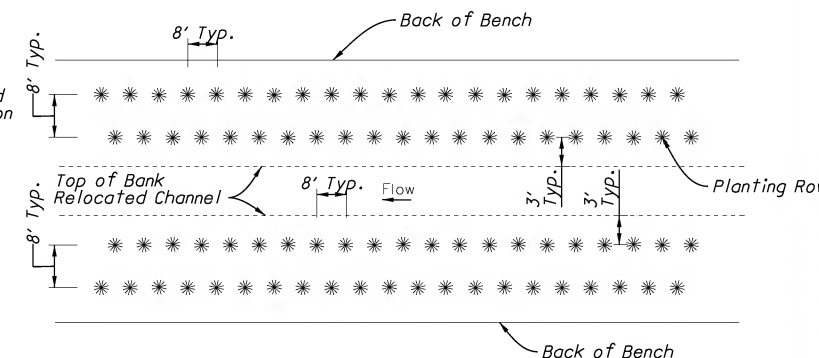
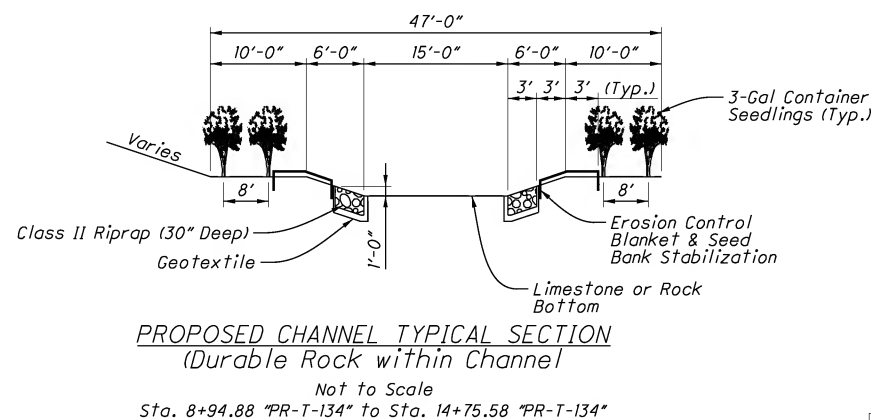
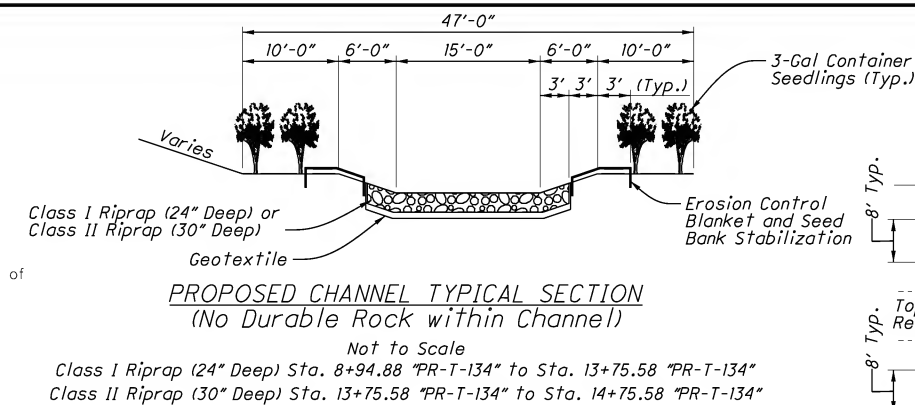
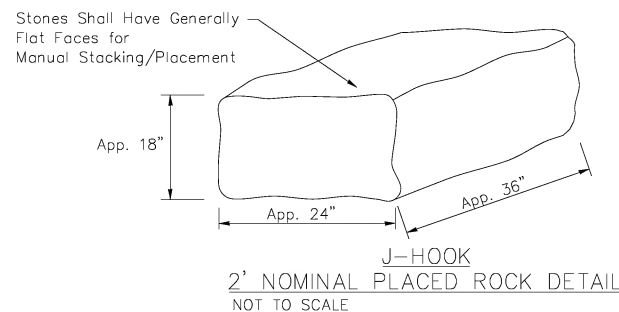
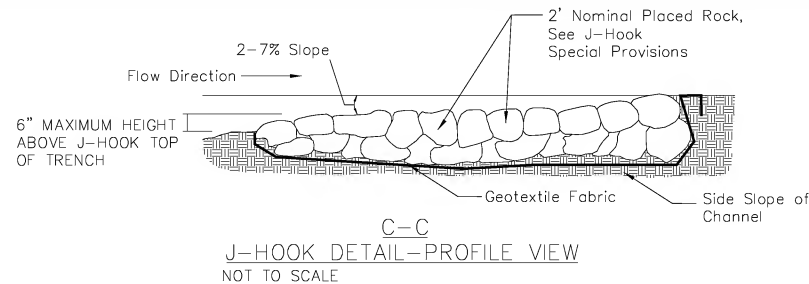
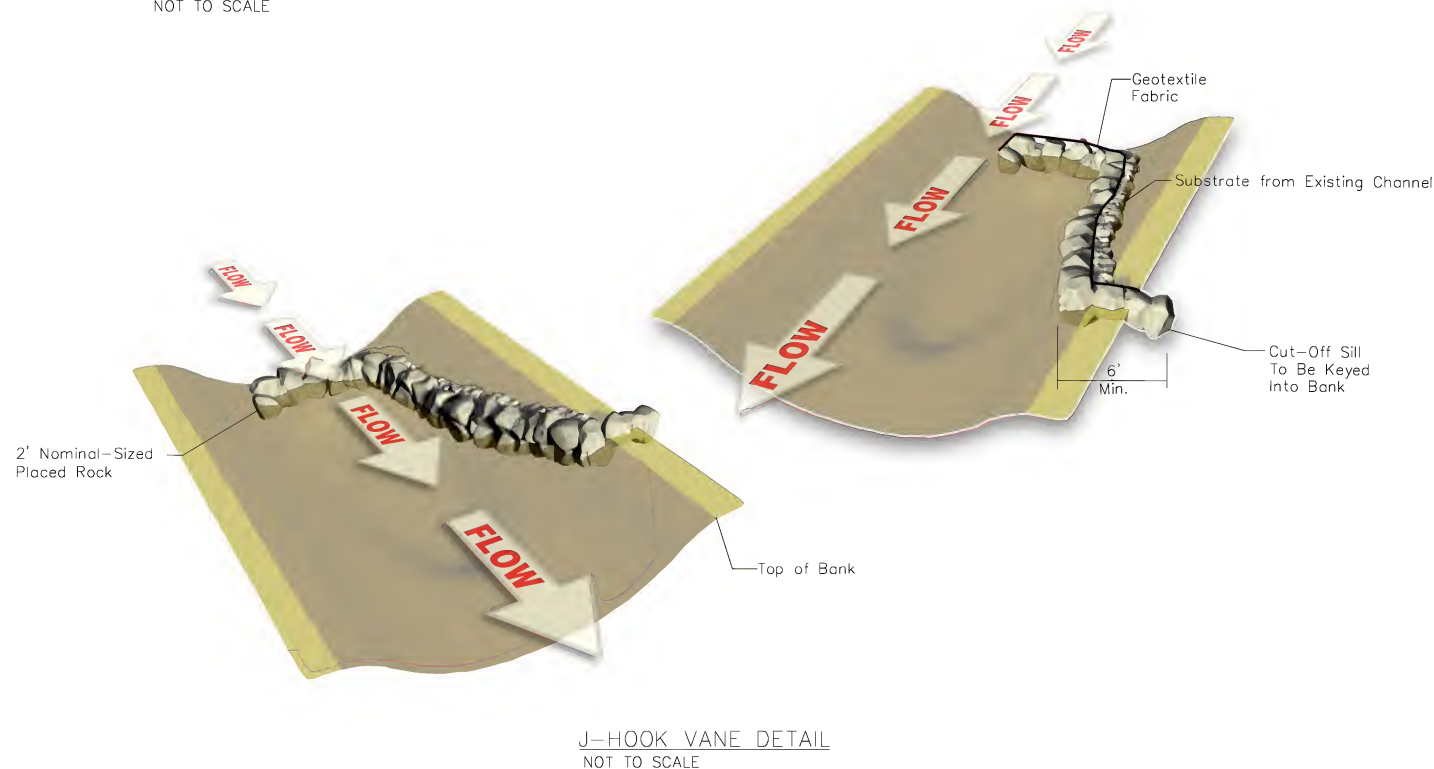
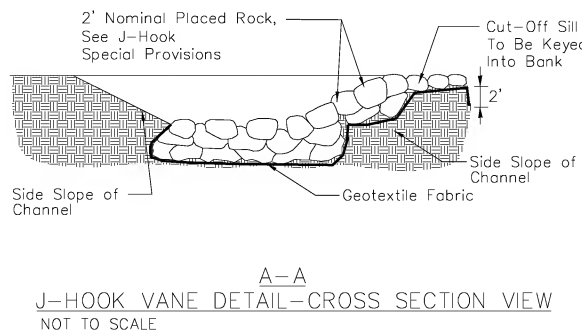
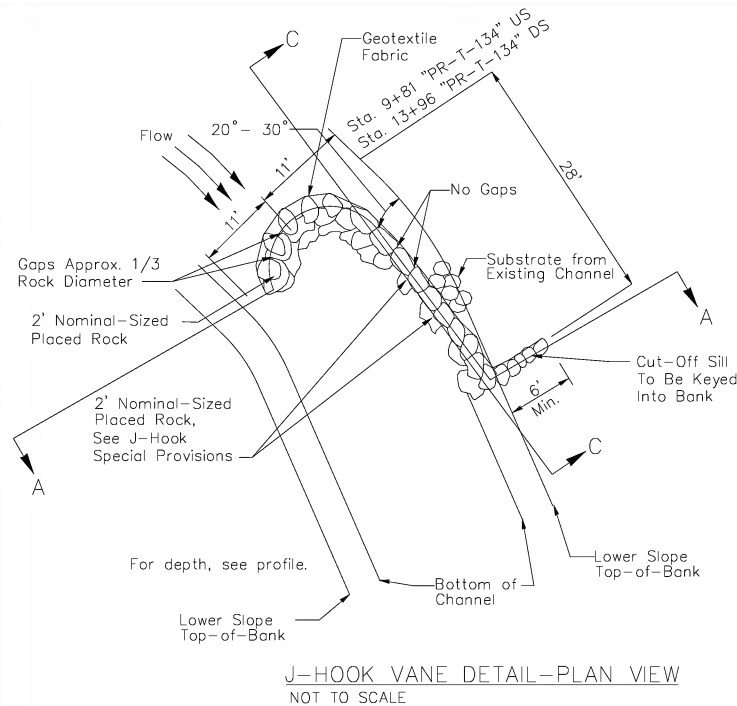
① 165 lb/yd<sup>2</sup> HMA, Type B, Surface, on  
275 lb/yd<sup>2</sup> HMA, Type B, Intermediate, on  
660 lb/yd<sup>2</sup> HMA, Type B, Base, on  
Subgrade Treatment (Type IC)

③ 165 lb/yd<sup>2</sup> HMA, Type B, Surface

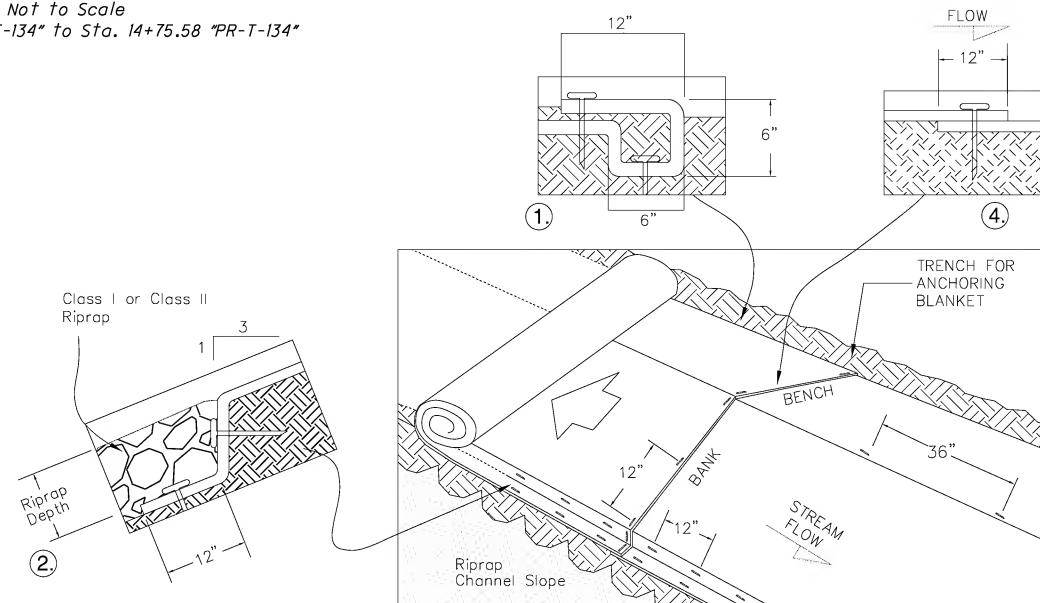
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TIME: 10:42:22 AM  
LOCATION: R:\03141 - I-69 Section 4\MicroStation\Sheet Files\1562700RDL\_CD06\_S9.dgn

09/25/12 - Miscellaneous revisions





**PLANTING DETAIL**  
Not to Scale  
Two Rows of 3-Gal. Container Seedlings shall be planted on both sides of the realigned channel.



- BEGIN AT THE DOWNSTREAM END OF THE REALIGNED CHANNEL. ROLL THE BLANKET FROM DOWNSTREAM TO UPSTREAM. ANCHOR THE UP-SLOPE SIDE OF THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION BACK OVER SEED AND COMPACTED SOIL. SECURE THE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- THE EDGE OF THE BLANKET AT UPPER ELEVATION OF CL. I OR CL. II RIPRAP SHALL BE ANCHORED BY PLACING THE BLANKET IN A TRENCH KEYED INTO THE PROPOSED CHANNEL SLOPE AS SHOWN. ANCHOR THE BLANKET WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ON THE SIDE AND BOTTOM OF THE TRENCH. BACKFILL WITH RIPRAP AFTER STAKING. THIS MAY BE BEST ACCOMPLISHED BY INSTALLING THE BLANKET IMMEDIATELY AFTER OVER-EXCAVATION OF THE CONSTRUCTED CHANNEL AND PRIOR TO PLACEMENT OF THE RIPRAP.
- ALL BLANKETS SHALL BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN ABOVE. STAKING SHALL BE A MAXIMUM OF 12" APART ALONG ALL EDGES AND OVERLAPS AND A MAXIMUM OF 36" APART THROUGHOUT THE REMAINDER OF THE BLANKET.
- THE EDGES OF ALL HORIZONTAL AND VERTICAL SEAMS SHALL BE STAPLED WITH APPROXIMATELY 8" - 12" OVERLAP. NOTE: \*SEAM OVERLAP SHALL BE SHINGLED ACCORDING TO PREDOMINANT EROSION ACTION (EDGE OF UPSTREAM/UP-SLOPE BLANKET OVER TOP OF THE DOWNSTREAM/DOWN-SLOPE BLANKET).
- WHERE THE STREAM CHANNEL IS CONSTRUCTED WITH A FLAT BENCH, THE BLANKET SHALL EXTEND ONTO, AND SHALL BE ANCHORED WITHIN A TRENCH DUG ON THE BENCH.
- WHERE RIPRAP IS SPECIFIED ADJACENT TO THE BLANKET (e.g. ROADSIDE DITCH OUTFALLS), THE RIPRAP SHALL BE PLACED OVER THE BLANKET FOLLOWING STAKING. NOTE: \*IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKET.



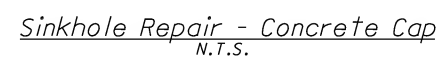
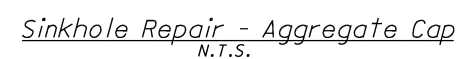
RECOMMENDED FOR APPROVAL	
DESIGNED: JWF	DRAWN: BDM
CHECKED: MDO	CHECKED: JWF

INDIANA  
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS  
J-HOOK & EROSION CONTROL BLANKET DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MISC-05
CONTRACT	PROJECT
IR-33742	1006075





DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

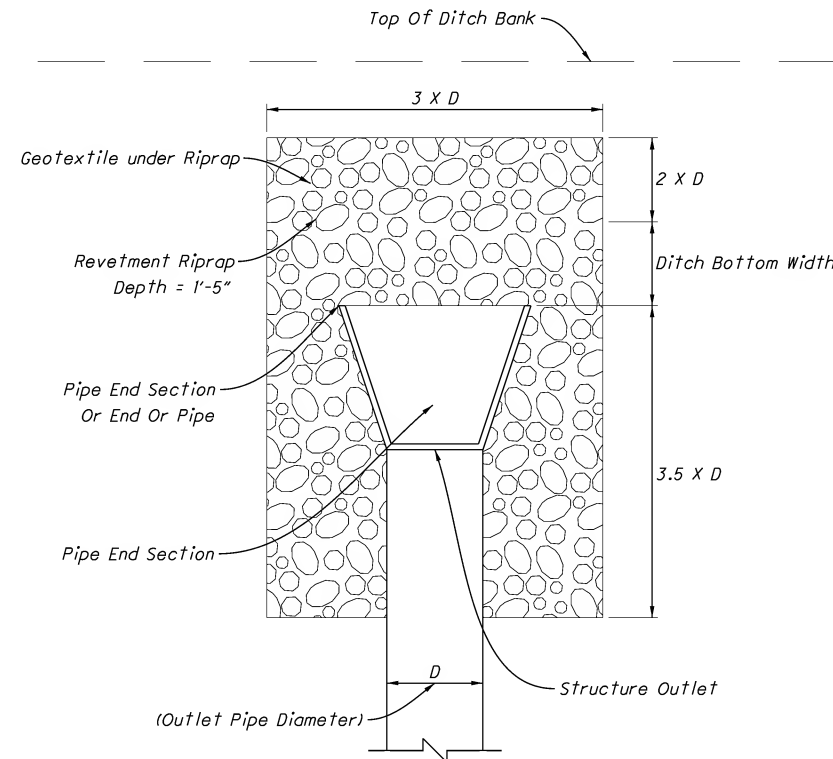
MISCELLANEOUS DETAILS  
KARST DETAILS

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	MD-02	100 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

DITCH LINER (GEOMEMBRANE)								
Limits					Offset	Length (ft)	Width (ft)	SYS
1475+30	"A"	to	1477+30	"A"	RT	200	4	365
1480+75	"A"	to	1484+40	"A"	LT	365	4	666
1496+50	"PR-A"	to	1498+50	"PR-A"	LT	200	4	365
1508+00	"PR-A"	to	1512+50	"PR-A"	RT	450	4	822
1518+85	"PR-A"	to	1521+00	"PR-A"	RT	215	4	1520
1523+25	"PR-A"	to	1524+70	"PR-A"	RT	145	4	265
1526+85	"PR-A"	to	1527+50	"PR-A"	RT	65	4	119
1533+25	"PR-A"	to	1538+10	"PR-A"	LT	485	4	886
1552+00	"NWR-3"	to	1554+50	"NWR-3"	RT	250	0	234
1558+00	"NWR-3"	to	1561+00	"NWR-3"	RT	300	0	
1576+60	"NWR-3"	to	1577+42	"NWR-3"	RT	82	0	77
1576+15	"NWR-3"	to	1579+00	"NWR-3"	LT	285	0	267
523+00	"SEL-3"	to	524+44	"SEL-3"	RT	144	0	135
516+00	"SEL-3"	to	523+50	"SEL-3"	LT	750	0	703
1519+10	"SER-3"	to	1524+00	"SER-3"	LT	490	0	460
1519+50	"SER-3"	to	1522+00	"SER-3"	RT	250	0	234

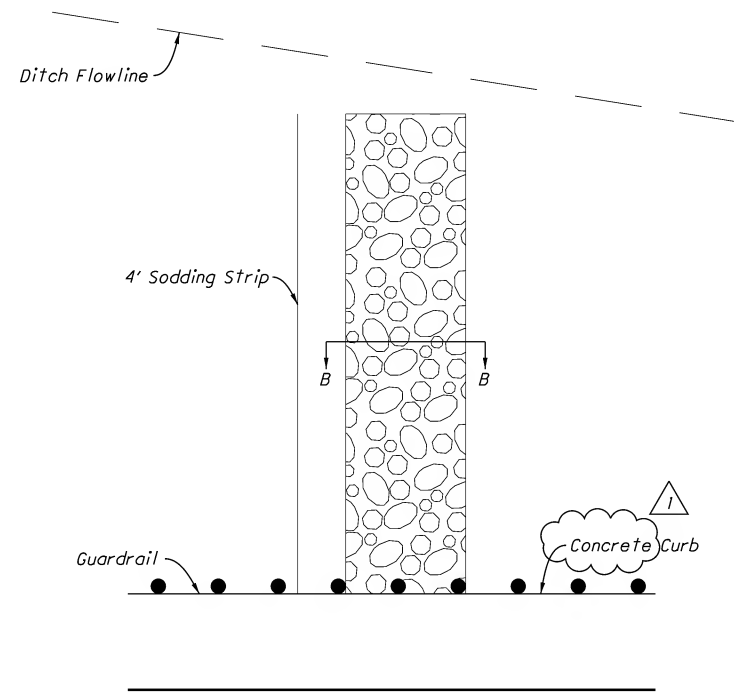
\* = Attach to Invert of Structure per Manufacturer's Recommendation





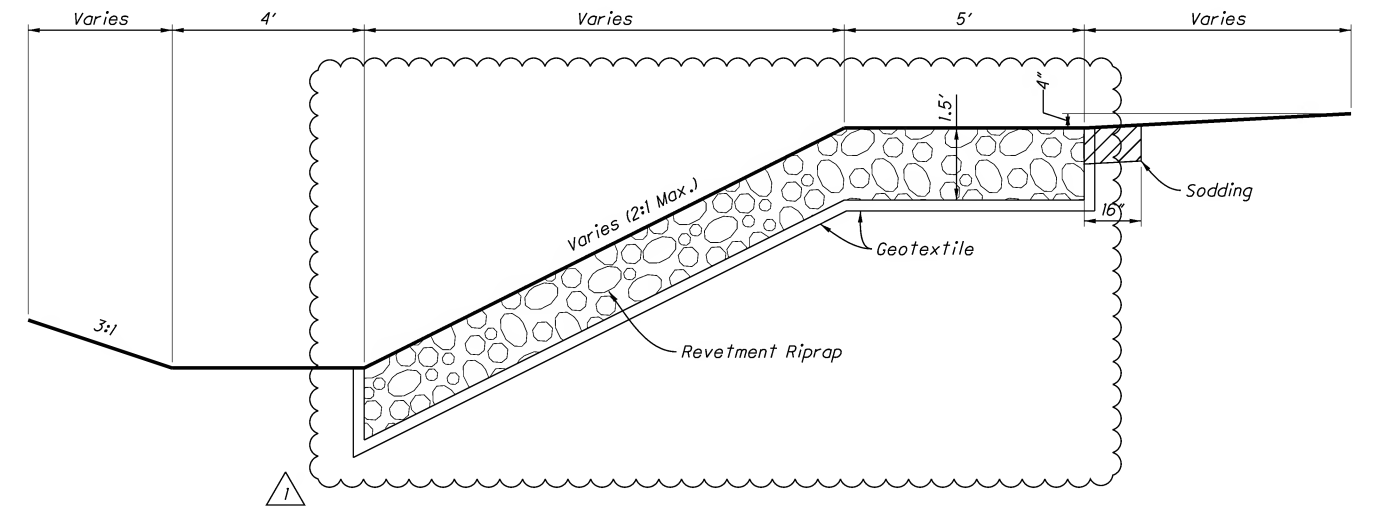
Detail Of Riprap @ Str. Outlet Str. Perpendicular To Ditch

N.T.S.  
D = Diameter of Circular Pipe In Feet  
D = Height Of Deformed Pipe In Feet



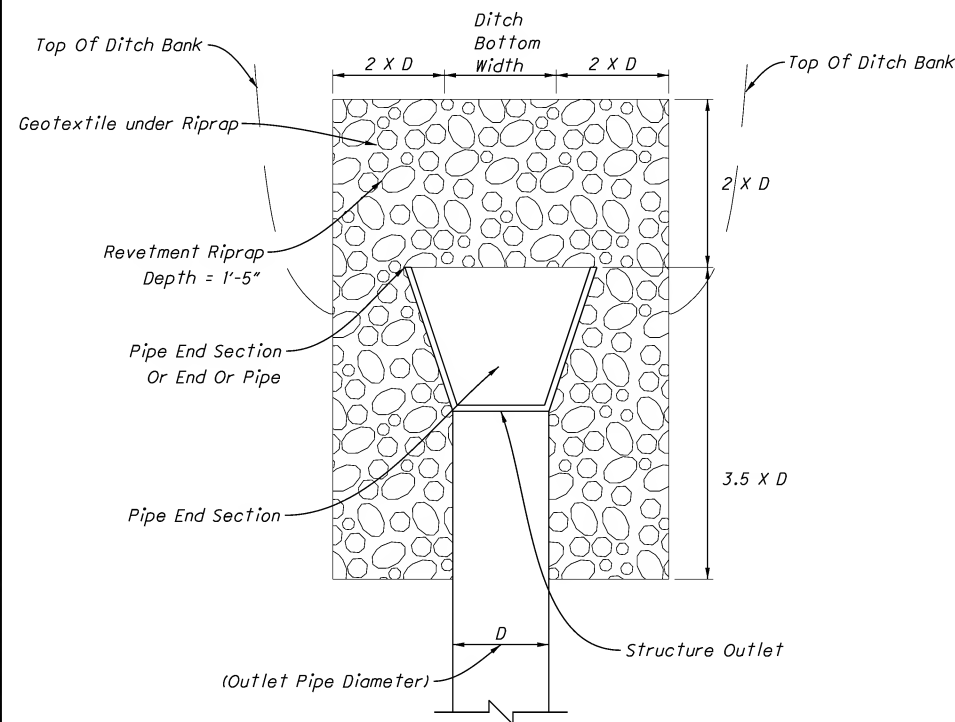
Riprap Drainage Turnout Plan View

N.T.S.



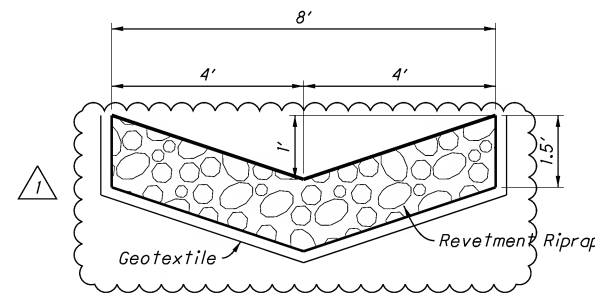
Ditch Backslope Protection

N.T.S.



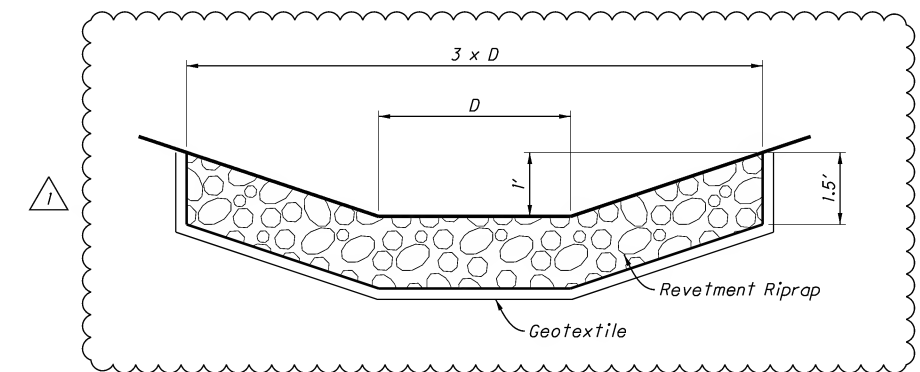
Detail Of Riprap @ Str. Outlet Str. Parallel To Ditch

N.T.S.  
D = Diameter of Circular Pipe In Feet  
D = Height Of Deformed Pipe In Feet



Riprap Drainage Turnout Section B-B

N.T.S.



Detail Of Riprap @ Str. Outlet Str. Perpendicular To Ditch

N.T.S.  
D = Diameter of Circular Pipe In Feet  
D = Height Of Deformed Pipe In Feet

DATE: 10/1/2012  
TIME: 10:42:25 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500R1.MD03-A2.dgn



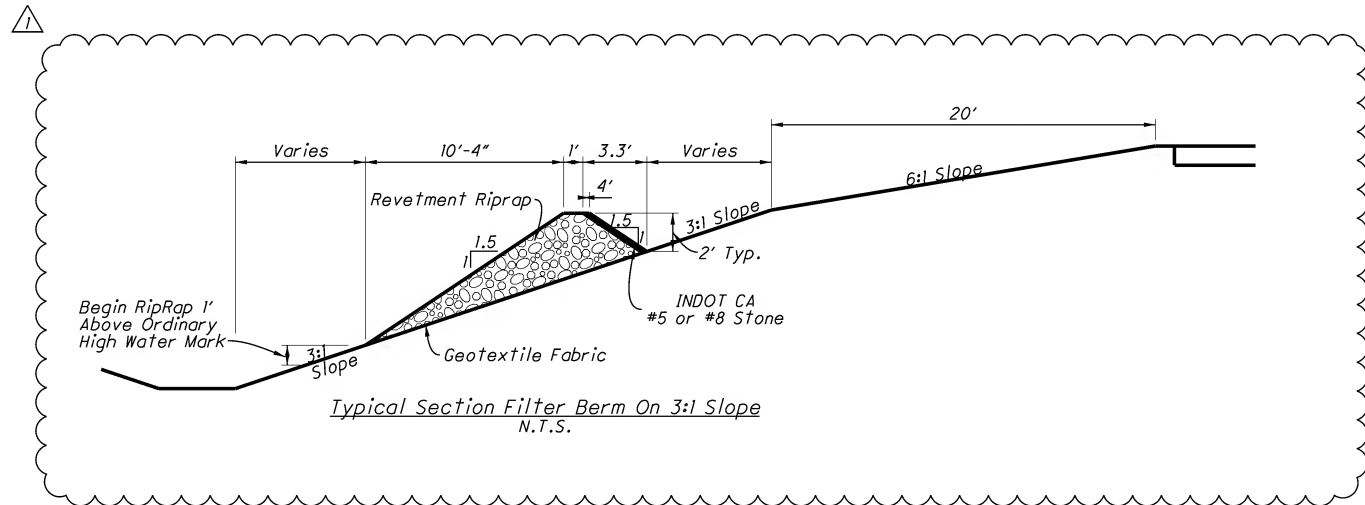
RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/12  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS  
RIPRAP DETAILS

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-03
CONTRACT IR-33742	SHEETS 101 of 173
	PROJECT 1006075



16"



SP-1  
N.T.S.

6" U.C. "B" Series

4" U.C. "B" Series

Black Legend on White Background  
1.00" Radius  
0.50" Border  
Area = 3.33 Sft

16"



SP-2  
N.T.S.

6" U.C. "B" Series

4" U.C. "B" Series  
3" U.C. "B" Series (40% Spacing)  
4" U.C. "B" Series (40% Spacing)

Black Legend on White Background  
1.00" Radius  
0.50" Border  
Area = 3.33 Sft

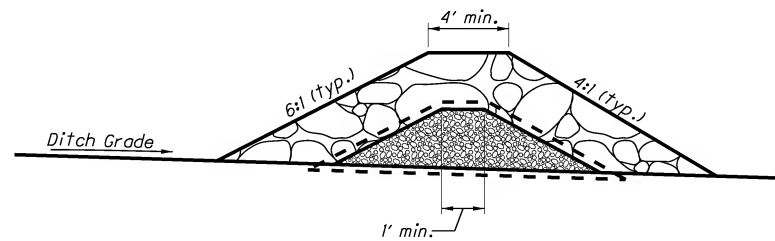


RECOMMENDED FOR APPROVAL <i>M. D. Orton</i> 9/6/12 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
MISCELLANEOUS DETAILS FILTER BERM & SIGN DETAILS	

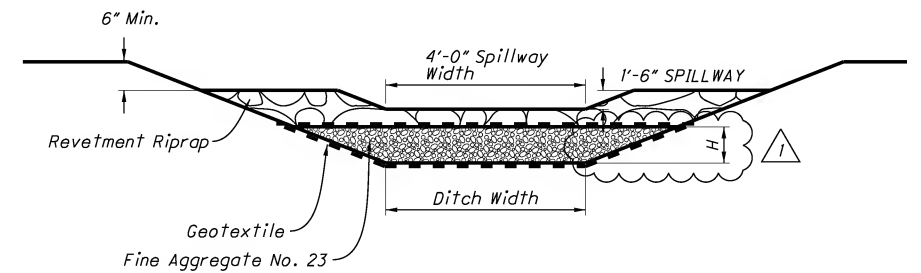
HORIZONTAL SCALE As Shown	BRIDGE FILE N/A
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-04
CONTRACT IR-33742	SHEETS 102 of 173
	PROJECT 1006075



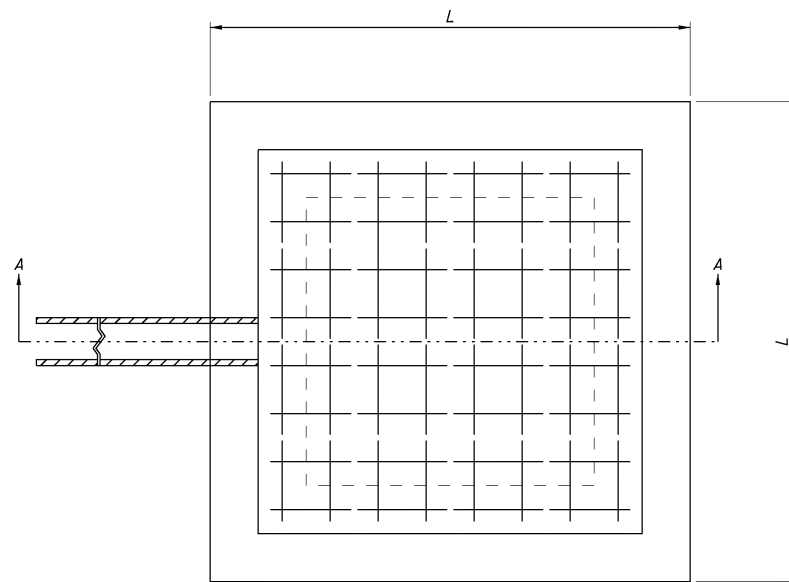


SPILL CONTAINMENT DETAIL  
PROFILE VIEW  
Scale: N.T.S.

Spill Containment Location Table					
Station	LEFT	RIGHT	CONTAINMENT DAM HEIGHT (FT)	DITCH WIDTH (FT)	BERM HEIGHT
			H	W	ELEV
Line "PR-A"					
1464+00		X	6.4'	10'	619.00
1464+00	X		8.5'	10'	N/A
1468+50		X	6.6'	4'	621.50
1468+50	X		5.5'	4'	619.50

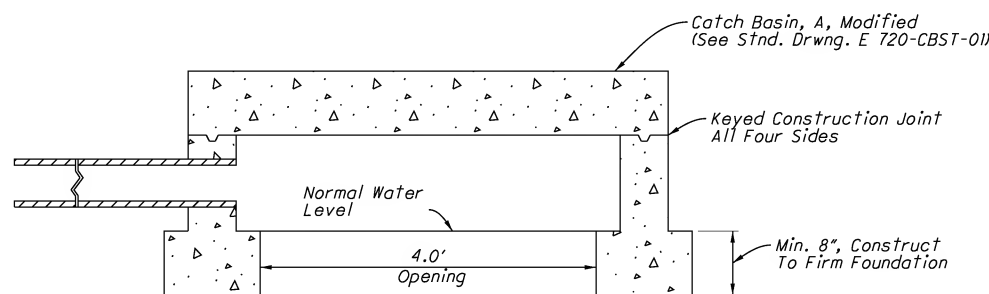


SPILL CONTAINMENT DETAIL  
SECTION A-A  
Scale: N.T.S.



Springbox - Plan

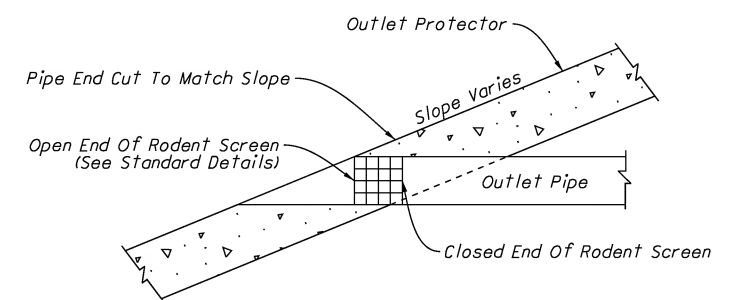
SPRINGBOX TABLE						
Feature	Station	Offset	Flow Rate (gpm)	Water Elev. (ft)	Pipe Size (in)	Length (ft)
4-1520	1465+30	45' RT.	10.00	679	12	64'
4-0085	1498+50	145' LT.	1.00	691	12	56'
4-0003	1510+40	105' LT.	1.00	701	12	104'
4-1530	1518+55	150' LT.	1.00	700	12	48'
4-1457	1522+85	35' LT.	5.00	722	12	56'
4-1458	1524+50	130' LT.	5.00	724	12	24'
4-1769	1525+55	50' LT.	N/A	733	12	38'



Springbox - Section A-A

### Notes

This Item may Be Precast Or Cast In Place  
All Concrete To Be Class A3 If Cast In Place.  
Cost Of Wire Mesh Shield At Outfall End Of Pipe Is To Be Included In Price For Pipe.



Outlet Detail

DATE: 10/1/2012  
TIME: 10:42:27 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\2562700RDL\_MDO5\_A2.dgn

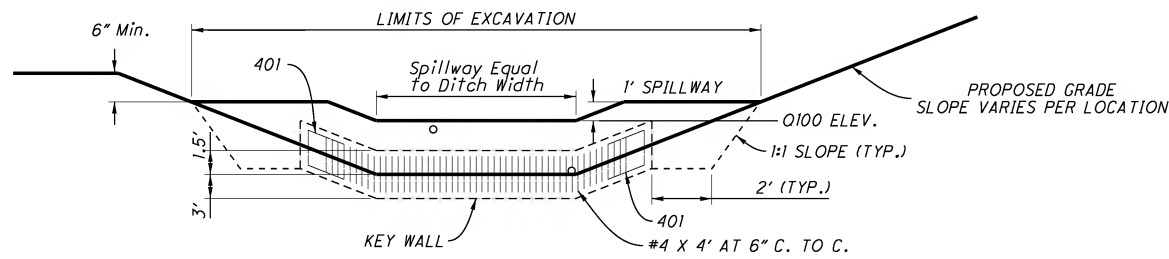


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: BDM	
CHECKED: HCF	CHECKED: MDO	

INDIANA  
DEPARTMENT OF TRANSPORTATION

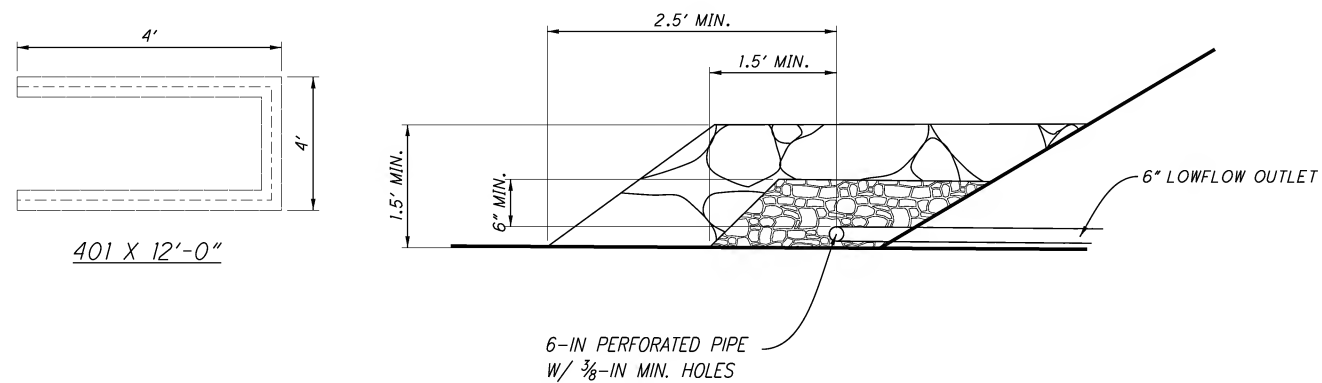
MISCELLANEOUS DETAILS  
SPILL CONTAINMENT & SPRINGBOX DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	N/A
VERTICAL SCALE	DESIGNATION
	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MD-05
CONTRACT	PROJECT
IR-33742	1006075

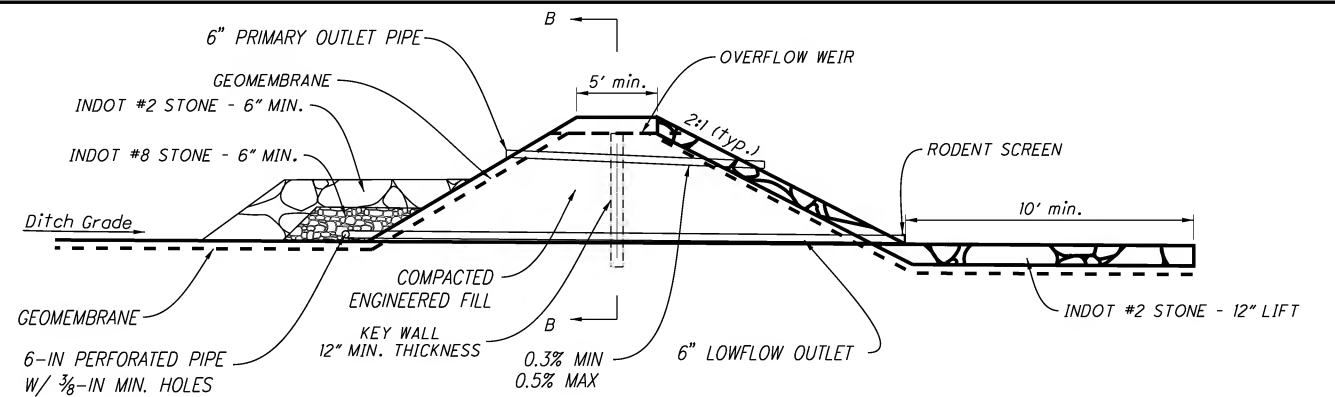


STORMWATER DETENTION BERM DETAIL  
Not to Scale

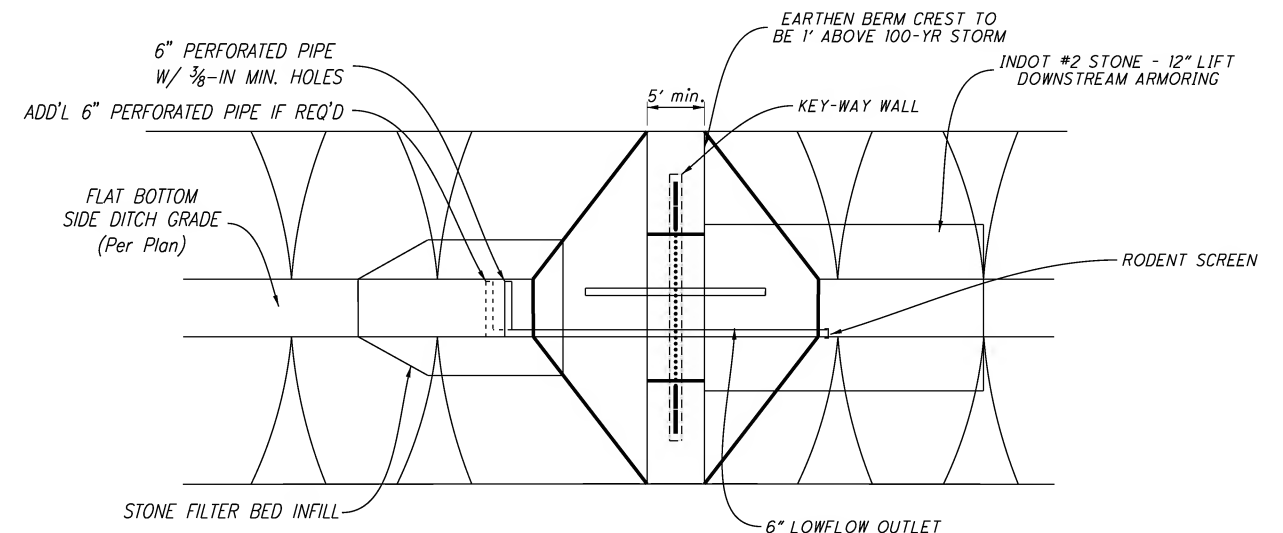
Detail B-B



Profile View (Low-Flow Pipe Inlet)  
Not to Scale



Profile View  
Not to Scale

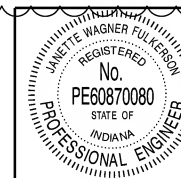


EARTHEN DRAINAGE DITCH BERM, ON GRADE PLAN VIEW  
Not to Scale

STORM WATER DETENTION BASIN MANAGEMENT FACILITIES DATA TABLE									STORM WATER DETENTION BASIN MANAGEMENT FACILITIES QUANTITIES								
STRUCTURE	STATION	PERFORATED PIPE ELEV.	FLOW AREA REQ'D (SQ.IN.)	PRIMARY OUT DIA (IN.)	PRIMARY INVERT ELEV.	DITCH BOTTOM WIDTH (FT)	WEIR CREST ELEV.	STRUCTURE NOTES	No. 2 Stone (TON)	Coarse Aggregate No. 8 (CYS)	Geomembrane (SYS)	Pipe, Type 2, Circular, 12-inch (LFT)	Pipe, Type 2, Circular, 6-inch (LFT)	Pipe, Underdrain, Corr. Plastic, Perf. 6-inch (LFT)	Concrete Class B (CYS)	Fill (CYS)	Unclassified Excavation (CYS)
134B	1482+50R	642.0	1.6	6	646.0	8	649.8	BERM RT TO EL.651.3	40	2.0	220		76	1	3.0	1400	
134D	1488+00L	642.0	1.6	6	646.3	4	649.5	BERM LT TO EL.651.0	30	1.2	180		70	1	3.0	650	
975A	1501+20R	695.0	1.6	6	696.5	4	697.8		20	1.2	70		46	1	3.0	27	
975B	1501+60R	695.0	1.6	12	700.0	4	701.6		30	1.2	160	16	44	1	3.0	150	
975C	1498+00L	675.0	1.6	6	677.5	4	678.0	BERM RT TO EL. 679.5 & DITCH BLOCK(1496+00/678.2)	20	1.2	70		46	1	3.0	60	
975D	1498+40L	675.0	1.6	12	682.0	4	684.7	BERM LT TO EL. 686.2	40	1.2	260	22	56	1	3.0	575	
976A	1509+10R	703.0	1.6	6	705.5	4	706.9	BERM RT TO EL. 708.4	30	1.2	90		50	1	3.0	80	
976B	1509+50R	703.0	1.6	6	705.0	4	706.6	BERM RT TO EL. 708.1	30	1.2	90		48	1	3.0	150	
977B	1513+40R	711.0	1.6	6	712.5	4	714.5		20	1.2	80		54	1	3.0	40	
928A	1519+50R	716.0	3.2	12	718.8	4	720.6	Use Dual Primary	30	1.2	1410	36	36	2	3.0		3700
981A	1560+50L (NWR)	740.0	1.6	12	742.7	4	744.4	Use Dual Primary	40	1.2	1830	36	60	2	3.0	2300	
987A	1520+50L	704.5	3.2	12	709.0	4	711.6		30	1.2	240	20	46	1	3.0	300	
TOTAL									360	15.2	4700	130	632	14	36.0	5732	3700

STORM WATER DETENTION BERM DATA TABLE									STORM WATER DETENTION BERM QUANTITIES								
STRUCTURE	STATION	PERFORATED PIPE ELEV.	FLOW AREA REQ'D (SQ.IN.)	PRIMARY OUT DIA (IN.)	PRIMARY INVERT ELEV.	DITCH BOTTOM WIDTH (FT)	WEIR CREST ELEV.	STRUCTURE NOTES	No. 2 Stone (TON)	Coarse Aggregate No. 8 (CYS)	Geomembrane (SYS)	Pipe, Type 2, Circular, 12-inch (LFT)	Pipe, Type 2, Circular, 6-inch (LFT)	Pipe, Underdrain, Corr. Plastic, Perf. 6-inch (LFT)	Concrete Class B (CYS)	Fill (CYS)	Unclassified Excavation (CYS)
134	1476+25R	627.2	1.6	6	628.7	4	630.2		20	1.2	70		46	1	3.0	27	
134	1483+75L	639.8	1.6	6	641.3	4	642.8		20	1.2	70		46	1	3.0	27	
981	1561+12.5R (NWR)	728.1	1.6	6	729.6	4	731.1		20	1.2	70		46	1	3.0	27	
981	1562+25R (NWR)	731.2	1.6	6	732.7	4	734.2		20	1.2	70		46	1	3.0	27	
TOTAL									80	4.8	280	0	184	4	12.0	108	0

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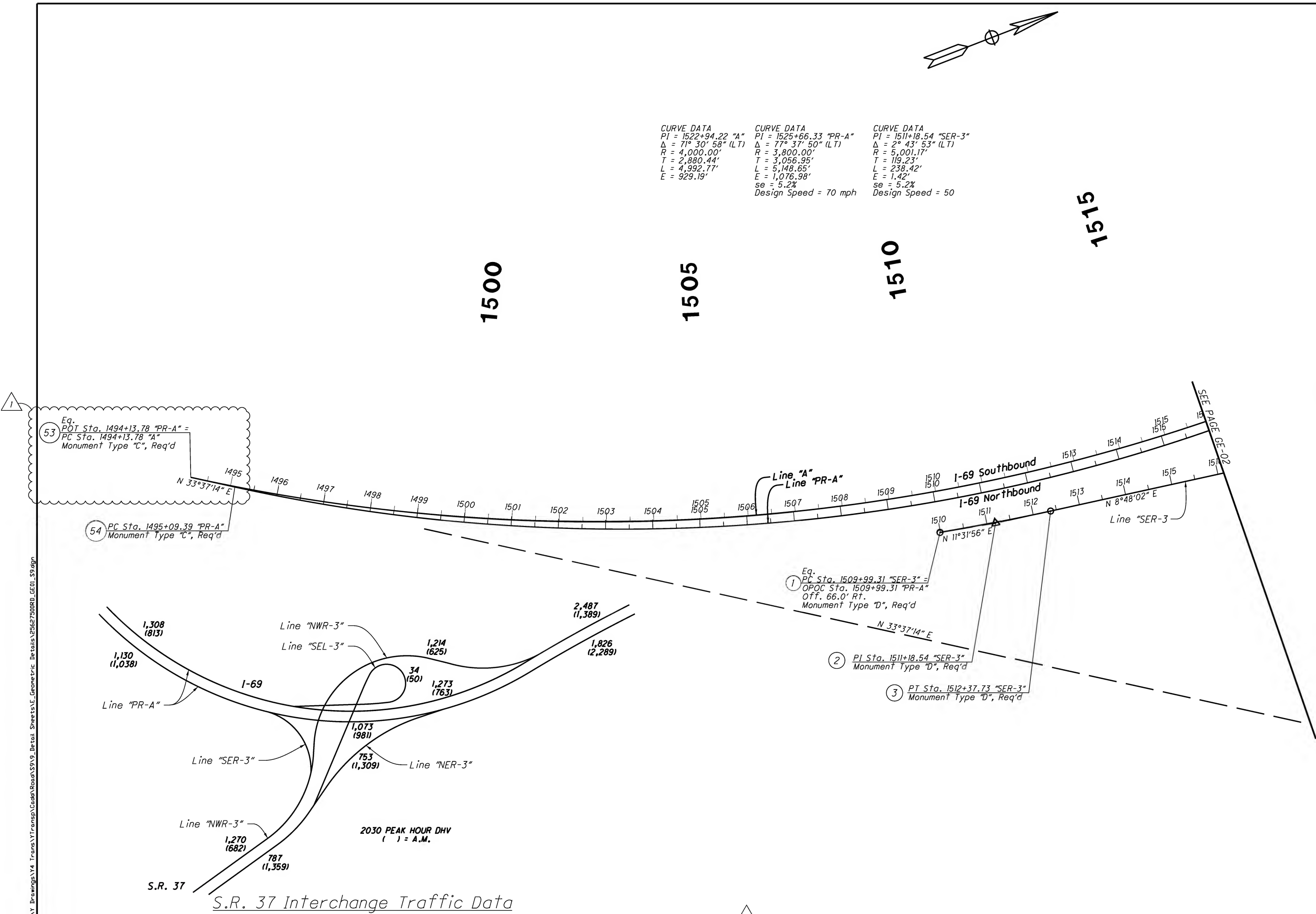


RECOMMENDED  
FOR APPROVAL

DESIGNED: PXG  
DRAWN: BDM  
CHECKED: JWF  
DATE: 9/11/12

INDIANA  
DEPARTMENT OF TRANSPORTATION  
DRAINAGE DITCH BERM DETAILS

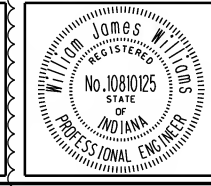
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VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-06
CONTRACT IR-33742	SHEETS 104 of 173
	PROJECT 1006075



<b>CURVE DATA</b> PI = 1522+94.22 "A" Δ = 71° 30' 58" (LT) R = 4,000.00' T = 2,880.44' L = 4,992.77' E = 929.19'	<b>CURVE DATA</b> PI = 1525+66.33 "PR-A" Δ = 77° 37' 50" (LT) R = 3,800.00' T = 3,056.95' L = 5,148.65' E = 1,076.98' se = 5.2% Design Speed = 70 mph	<b>CURVE DATA</b> PI = 1511+18.54 "SER-3" Δ = 2° 43' 53" (LT) R = 5,001.17' T = 119.23' L = 238.42' E = 1.42' se = 5.2% Design Speed = 50
--	---	---

POINT	STATION	LINE	NORTHING	EASTING
1	1509+99.31	SER-3	507997.3539	1272885.2722
2	1511+18.54	SER-3	508114.1806	1272909.1091
3	1512+37.73	SER-3	508232.0105	1272927.3516
53	1494+13.78	PR-A	506561.6924	1272203.7277
	1494+13.78	A		
54	1495+09.39	PR-A	506641.3088	1272256.6659

DATE: 10/3/2012  
TIME: 10:35:47 AM  
LOCATION: N:\Projects\150627500\Y Transp\Road\SR37\Detail Sheets\150627500\RD GE01\_S9.dgn



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: KCH	DATE
CHECKED: WJW	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE GEOMETRIC LAYOUT STA. 1499+00 TO STA. 1516+00 "PR-A"	

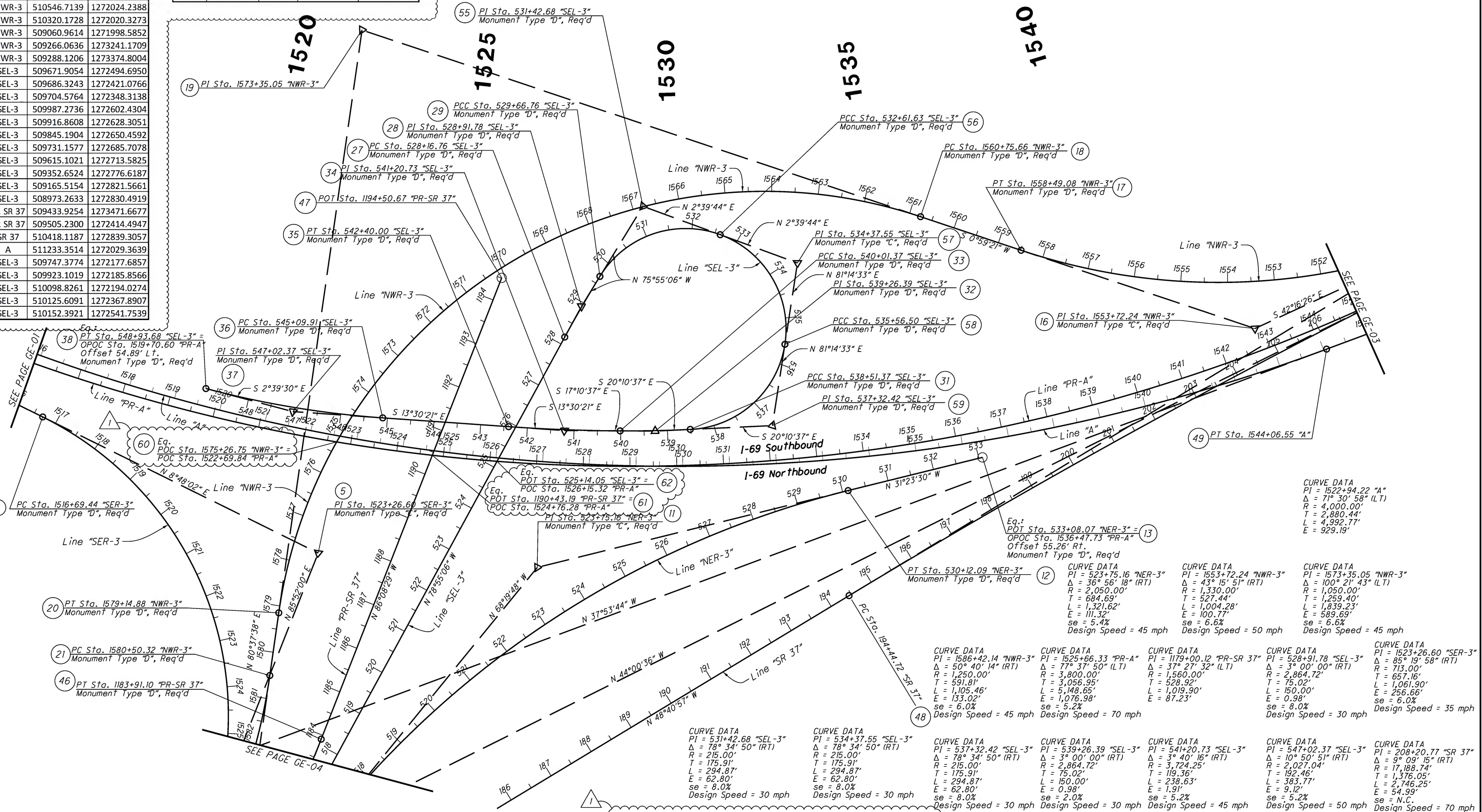
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VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GE-01
CONTRACT IR-33742	SHEETS 105 of 173
	PROJECT 1006075



1

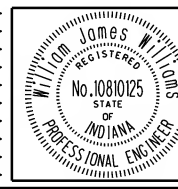
POINT	STATION	LINE	NORTHING	EASTING
4	1516+69.44	SER-3	508658.6365	1272993.4020
5	1523+26.6	SER-3	509308.0622	1273093.9464
16	1553+72.24	NWR-3	511074.0796	1272033.3446
11	523+75.16	NER-3	509764.1227	1272982.2872
12	530+12.09	NER-3	510348.5942	1272625.6396
13	533+08.07	NER-3	510601.2510	1272471.4672
17	1558+49.08	NWR-3	510546.7139	1272024.2388
18	1560+75.66	NWR-3	510320.1728	1272020.3273
19	1573+35.05	NWR-3	509060.9614	1271998.5852
20	1579+14.88	NWR-3	509266.0636	1273241.1709
21	1580+50.23	NWR-3	509288.1206	1273374.8004
27	528+16.76	SEL-3	509671.9054	1272494.6950
28	528+91.78	SEL-3	509686.3243	1272421.0766
29	529+66.76	SEL-3	509704.5764	1272348.3138
31	538+51.37	SEL-3	509987.2736	1272602.4304
32	539+26.39	SEL-3	509916.8608	1272628.3051
33	540+01.37	SEL-3	509845.1904	1272650.4592
34	541+20.73	SEL-3	509731.1577	1272685.7078
35	542+40.	SEL-3	509615.1021	1272713.5825
36	545+09.91	SEL-3	509352.6524	1272776.6187
37	547+02.37	SEL-3	509165.5154	1272821.5661
38	548+93.68	SEL-3	508973.2633	1272830.4919
46	1183+91.1	PR-SR 37	509433.9254	1273471.6677
47	1194+50.67	PR-SR 37	509505.2300	1272414.4947
48	194+44.72	SR 37	510418.1187	1272839.3057
49	1544+06.55	A	511233.3514	1272029.3639
55	531+42.68	SEL-3	509747.3774	1272177.6857
56	532+61.63	SEL-3	509923.1019	1272185.8566
57	534+37.55	SEL-3	510098.8261	1272194.0274
58	535+56.5	SEL-3	510125.6091	1272367.8907
59	537+32.42	SEL-3	510152.3921	1272541.7539

POINT	STATION	LINE	NORTHING	EASTING
60	1575+26.75	NWR-3	509274.2602	1272855.3293
61	1522+69.84	PR-A		
61	1190+43.19	PR-SR 37	509089.3862	1272876.7130
61	1524+76.28	PR-A		
62	525+14.05	SEL-3		
62	1526+15.32	PR-A	509613.7210	1272791.7666



DATE: 10/3/2012  
TIME: 10:35:48 AM  
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9/25/12 - Updated Notes And Labels



RECOMMENDED FOR APPROVAL	DESIGNED: JB	DRAWN: KCH
CHECKED: WJW	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
INTERCHANGE GEOMETRIC LAYOUT STA. 1516+00 TO STA. 1545+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GE-02
CONTRACT IR-33742	SHEETS 106 of 173
	PROJECT 1006075

CURVE DATA

PI = 1522+94.22 "A"

Δ = 71° 30' 58" (LT)

R = 4,000.00'

T = 2,880.44'

L = 4,992.77'

E = 929.19'

CURVE DATA

PI = 1553+72.24 "NWR-3"

Δ = 43° 15' 51" (RT)

R = 1,330.00'

T = 527.44'

L = 1,004.28'

E = 100.77'

se = 6.6%

Design Speed = 50 mph

CURVE DATA

PI = 208+20.77 "SR 37"

Δ = 9° 09' 15" (RT)

R = 17,188.74'

T = 1,376.05'

L = 2,746.25'

E = 64.99'

se = N.C.

Design Speed = 70 mph

CURVE DATA

PI = 1525+66.33 "PR-A"

Δ = 77° 37' 50" (LT)

R = 3,000.00'

T = 3,056.95'

L = 5,148.65'

E = 1,076.98'

se = 5.2%

Design Speed = 70 mph

CURVE DATA

PI = 1553+30.60 "PR-A"

Δ = 4° 28' 54" (RT)

R = 17,188.15'

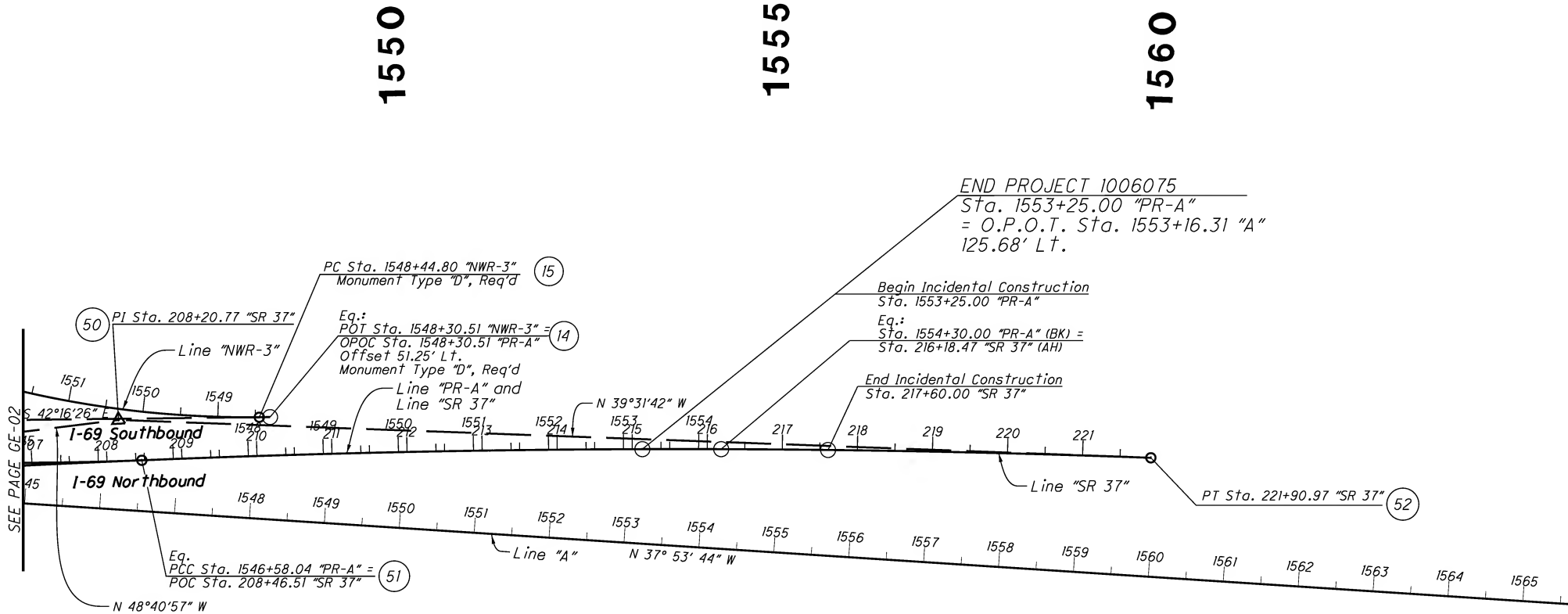
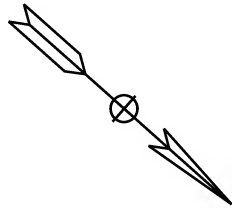
T = 672.56'

L = 1,344.43'

E = 13.15'

se = N.C.

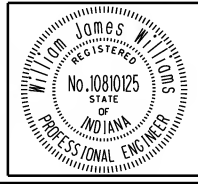
Design Speed = 70 mph




POINT	STATION	LINE	NORTHING	EASTING
14	1548+30.51	NWR-3	511474.9216	1271668.9280
15	1548+44.8	NWR-3	511464.3496	1271678.5392
50	208+20.77	SR 37	511326.6312	1271805.8030
51	1546+58.04	PR-A	511385.5097	1271825.3528
52	221+90.97	SR 37	512387.9943	1270929.9997

DATE: 10/3/2012  
TIME: 10:35:51 AM  
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1 9/25/12 - Updated Notes And Labels



RECOMMENDED FOR APPROVAL		9/4/2012
DESIGNED: JB	DRAWN: KCH	DATE
CHECKED: WJW	CHECKED: MDO	

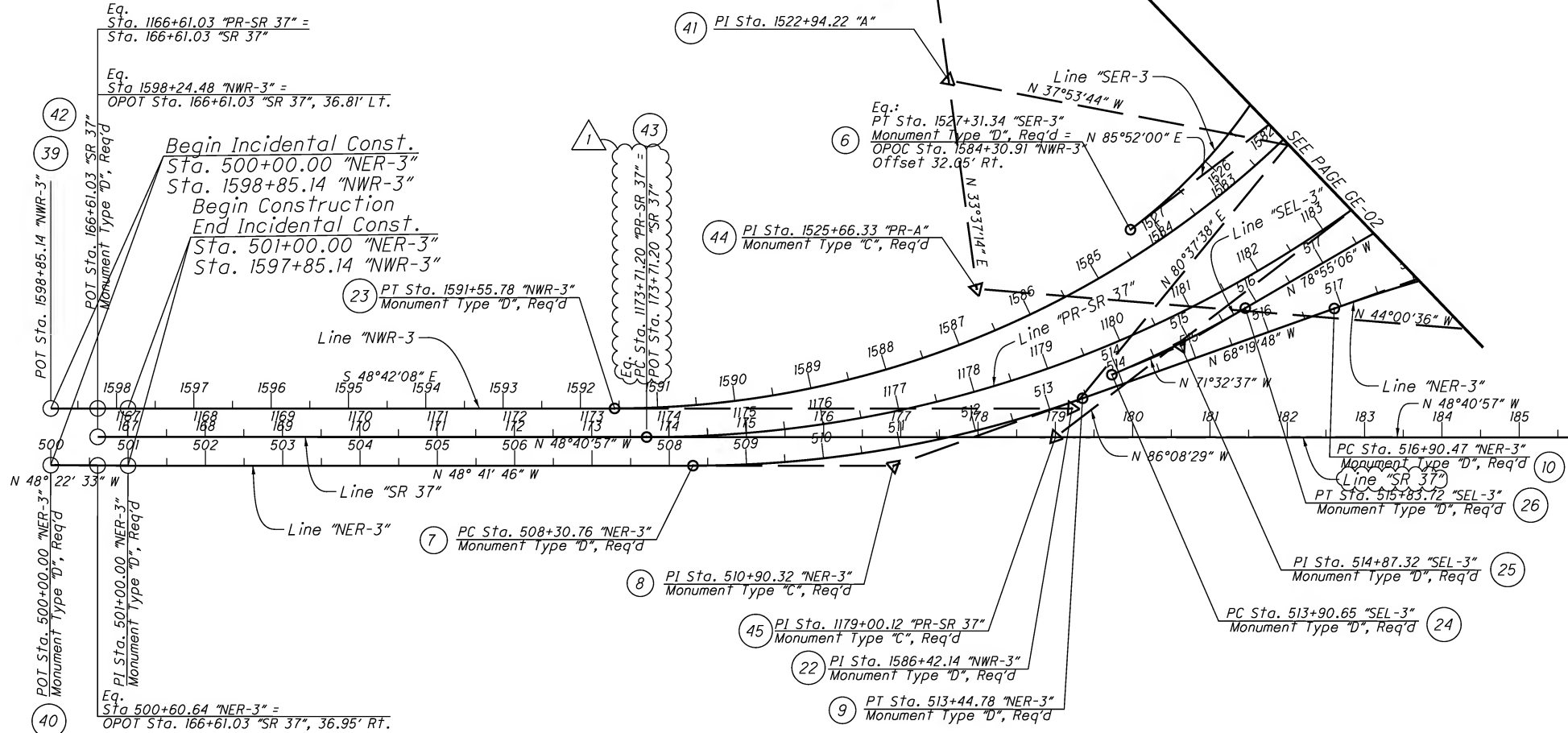
INDIANA  
DEPARTMENT OF TRANSPORTATION

INTERCHANGE GEOMETRIC LAYOUT  
STA. 1545+00 TO STA. 1560+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GE-03
CONTRACT IR-33742	SHEETS 107 of 173
	PROJECT 1006075



POINT	STATION	LINE	NORTHING	EASTING
6	1527+31.34	SER-3	509260.6946	1273749.3998
7	508+30.76	NER-3	509116.4837	1274376.0349
8	510+90.32	NER-3	509287.8036	1274181.0532
9	513+44.78	NER-3	509383.6465	1273939.8425
10	516+90.47	NER-3	509511.2932	1273618.5903
22	1586+42.14	NWR-3	509384.5018	1273958.7136
23	1591+55.78	NWR-3	508993.9208	1274403.3374
24	513+90.65	SEL-3	509385.7213	1273891.3079
25	514+87.32	SEL-3	509416.3242	1273799.6129
26	515+83.72	SEL-3	509434.9044	1273704.7484
39	1598+85.14	NWR-3	508512.5651	1274951.2962
40	500+00.	NER-3	508567.7152	1274999.7496
41	1522+94.22	A	508960.3025	1273798.6020
42	166+61.03	SR 37	508580.2432	1274390.0298
43	1173+71.2 173+71.20	PR SR 37 SR 37	509049.1199	1274396.6466
44	1525+66.33	PR-A	509186.8962	1273949.2678
45	1179+00.12	PR SR 37	509398.3313	1273999.3919



**CURVE DATA**  
**PI = 510+90.32 "NER-3"**  
 **$\Delta = 19^\circ 38' 03''$  (LT)**  
**R = 1,500.00'**  
**T = 259.55'**  
**L = 514.02'**  
**E = 22.29'**  
**se = 5.4%**  
**Design Speed = 45 mph**

**CURVE DATA**  
 PI = 523+75.16 "NER-3"  
 $\Delta = 36^\circ 56' 18"$  (RT)  
 R = 2,050.00'  
 T = 684.69'  
 L = 1,321.62'  
 E = 111.32'  
 se = 5.4%  
 Design Speed = 45 mph

**CURVE DATA**  
**PI = 1586+42.14 "NWR-3"**  
 **$\Delta = 50^{\circ} 40' 14''$  (RT)**  
**R = 1,250.00'**  
**T = 591.81'**  
**L = 1,105.46'**  
**E = 133.02'**  
**se = 6.0%**  
**Design Speed = 45 mph**

CURVE DATA  
 PI = 1179+00.12 "PR-SR 37"  
 $\Delta = 37^\circ 27' 32"$  (LT)  
 R = 1,560.00'  
 T = 528.92'  
 L = 1,019.90'  
 E = 87.23'

**CURVE DATA**  
 $PI = 1523 + 26.60$  "SER-3"  
 $\Delta = 85^\circ 19' 58"$  (RT)  
 $R = 713.00'$   
 $T = 657.16'$   
 $L = 1,061.90'$   
 $E = 256.66'$   
 $se = 6.0\%$   
*Design Speed = 35 mph*

**CURVE DATA**  
**PI = 514+87.32 "SEL-3"**  
 **$\Delta = 7^\circ 22' 29"$  (LT)**  
 **$R = 1,500.00'$**   
 **$T = 96.67'$**   
 **$L = 193.07'$**   
 **$E = 3.11'$**   
 **$se = 5.4\%$**   
**Design Speed = 45 mph**

**CURVE DATA**  
 $PI = 1525 + 66.33$  "PR-A"  
 $\Delta = 77^\circ 37' 50''$  (LT)  
 $R = 3,800.00'$   
 $T = 3,056.95'$   
 $L = 5,148.65'$   
 $E = 1,076.98'$   
 $se = 5.2\%$   
 Design Speed = 70 mph

CURVE DATA  
 $PI = 1522 + 94.22$  "A"  
 $\Delta = 71^\circ 30' 58''$  (LT)  
 $R = 4,000.00'$   
 $T = 2,880.44'$   
 $L = 4,992.77'$   
 $E = 929.19'$

RECOMMENDED  
FOR APPROVAL


 9/4/2011  
 DESIGN ENGINEER DATE

DESIGNED: JB

CHECKED: WJW

INDIANA  
DEPARTMENT OF TRANSPORTATION

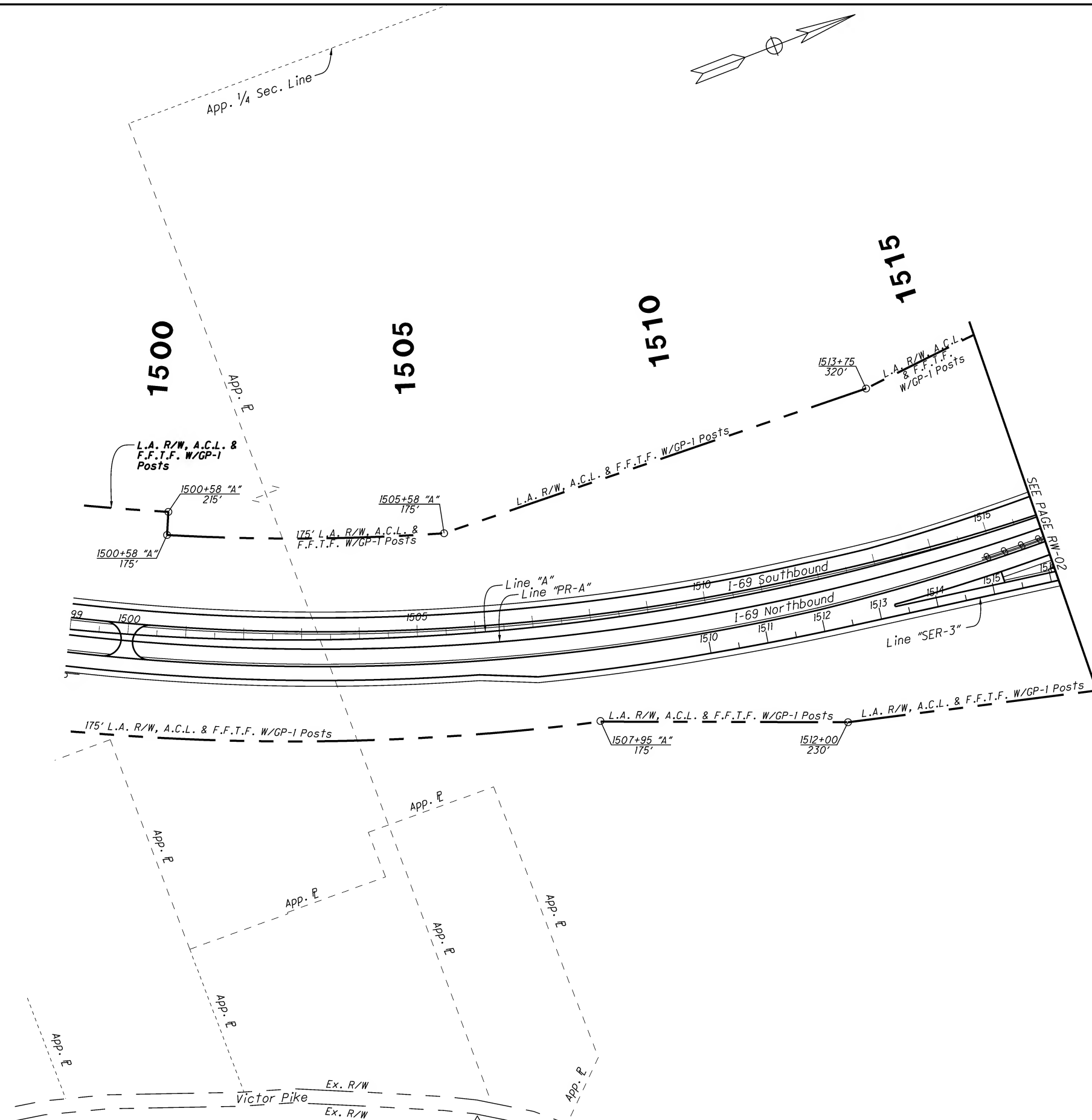
INTERCHANGE GEOMETRIC LAYOUT  
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
NONE	1006075

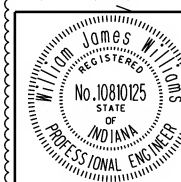
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ELECTRONIC / AERIAL	GE-04	108 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



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All R/W on this sheet to be as shown.  
All R/W on this sheet described from  
Line "PR-A" except as noted.  
Limited Access provisions to apply  
where indicated.

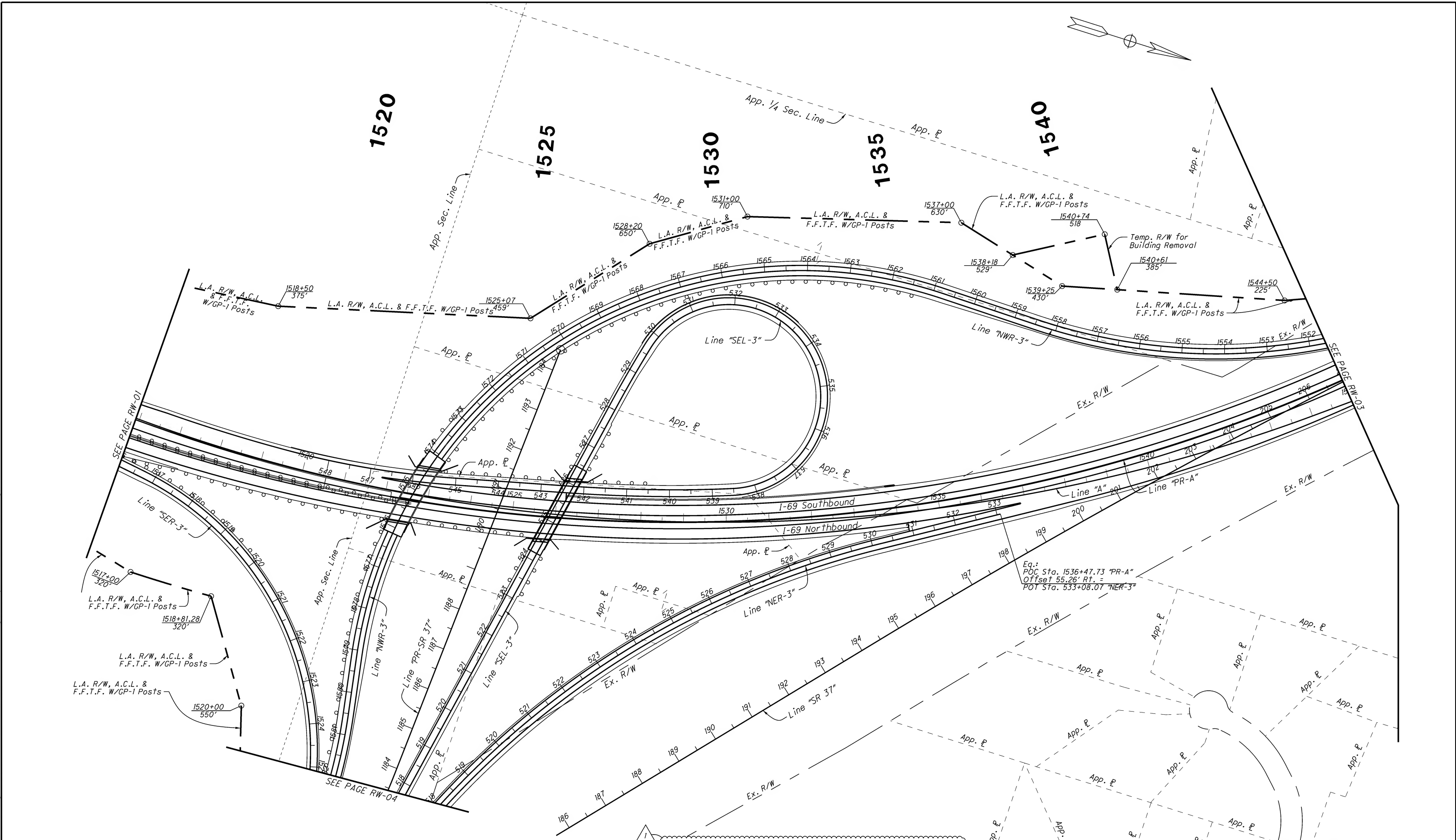


RECOMMENDED  
FOR APPROVAL  
DESIGNED: JB  
CHECKED: WJW  
DRAWN: KCH  
CHECKED: MDO  
DATE: 9/4/2012

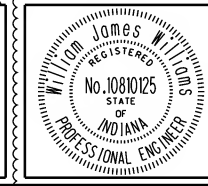
INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE R/W DETAILS  
STA. 1499+00 TO STA. 1516+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-01
CONTRACT IR-33742	SHEETS 109 of 173
	PROJECT 1006075

DATE: 10/3/2012  
TIME: 10:35:56 AM  
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All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "PR-A" except as noted.  
Limited Access provisions to apply where indicated.



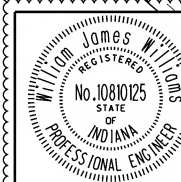
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DESIGNED: JB		DRAWN: KCH		9/4/2012	
CHECKED: WJW		CHECKED: MDO			

INDIANA  
DEPARTMENT OF TRANSPORTATION  
**INTERCHANGE R/W DETAILS**  
STA. 1516+00 TO STA. 1545+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-02
CONTRACT IR-33742	SHEETS 110 of 173
	PROJECT 1006075

DATE: 10/3/2012  
TIME: 10:35:57 AM  
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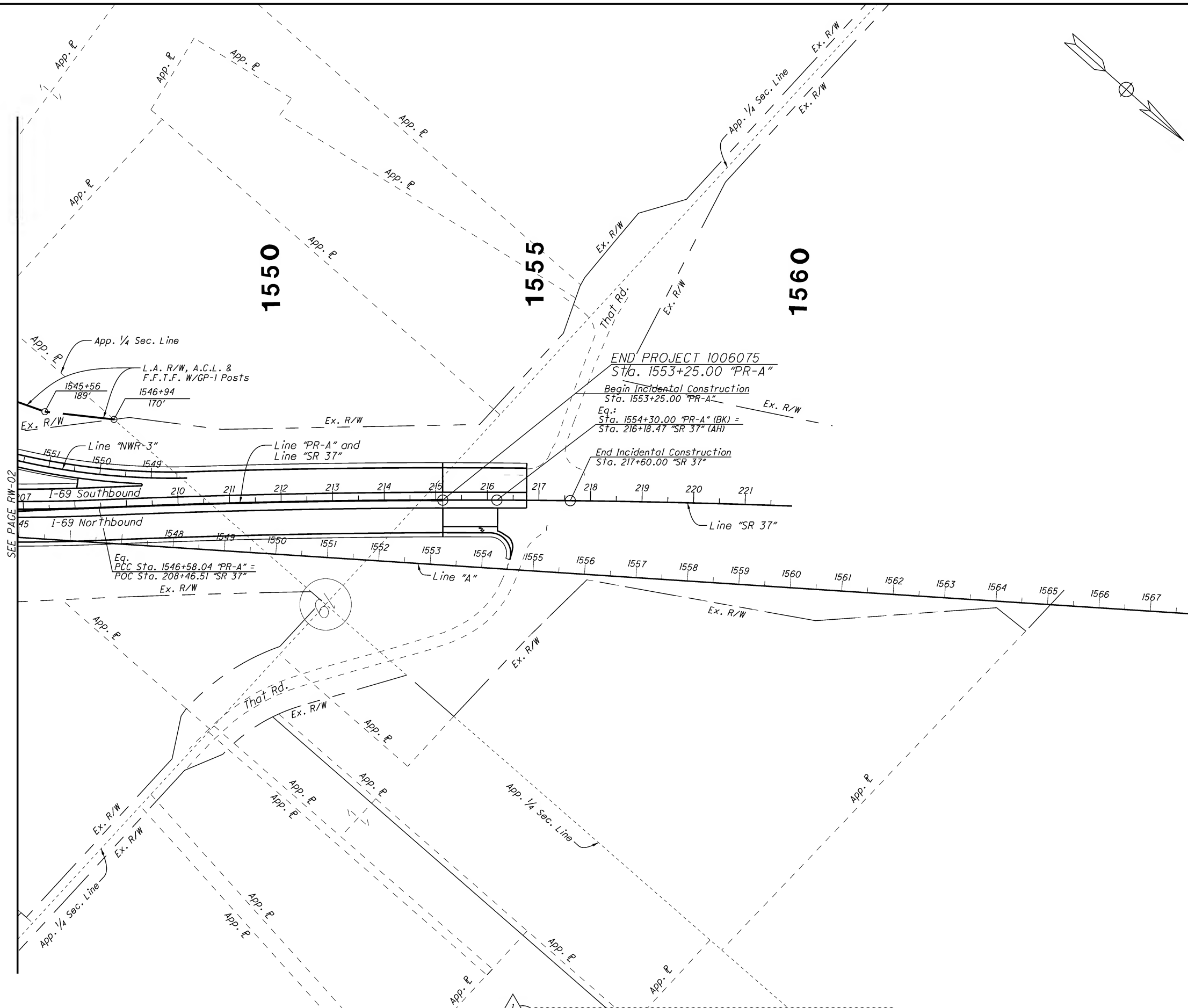
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All R/W on this sheet described from  
Line "PR-A" except as noted.  
Limited Access provisions to apply  
where indicated.



RECOMMENDED FOR APPROVAL	<i>William J. Jones</i> DESIGN ENGINEER	DATE 9/4/2012
DESIGNED: JB	DRAWN: KCH	
CHECKED: WJW	CHECKED: MDO	

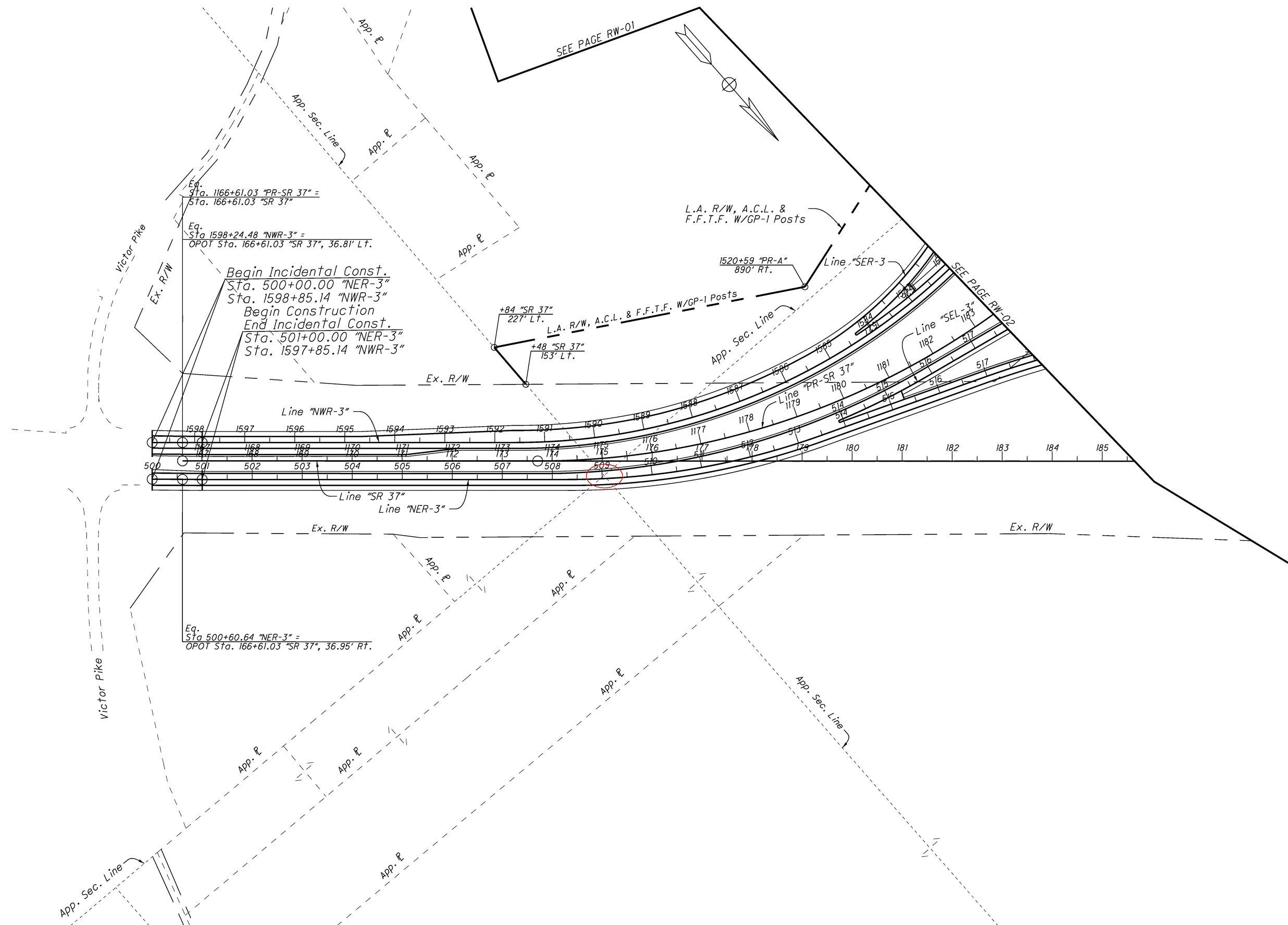
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE R/W DETAILS STA. 1545+00 TO STA. 1560+00 "PR-A"	

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VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-03
CONTRACT IR-33742	SHEETS 111 of 173
	PROJECT 1006075

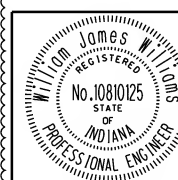




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All R/W on this sheet to be as shown.  
All R/W on this sheet described from Line "PR-A" except as noted.  
Limited Access provisions to apply where indicated.



RECOMMENDED FOR APPROVAL  
DESIGNED: JB  
CHECKED: WJW  
DRAWN: KCH  
CHECKED: MDO  
DATE: 9/4/2012

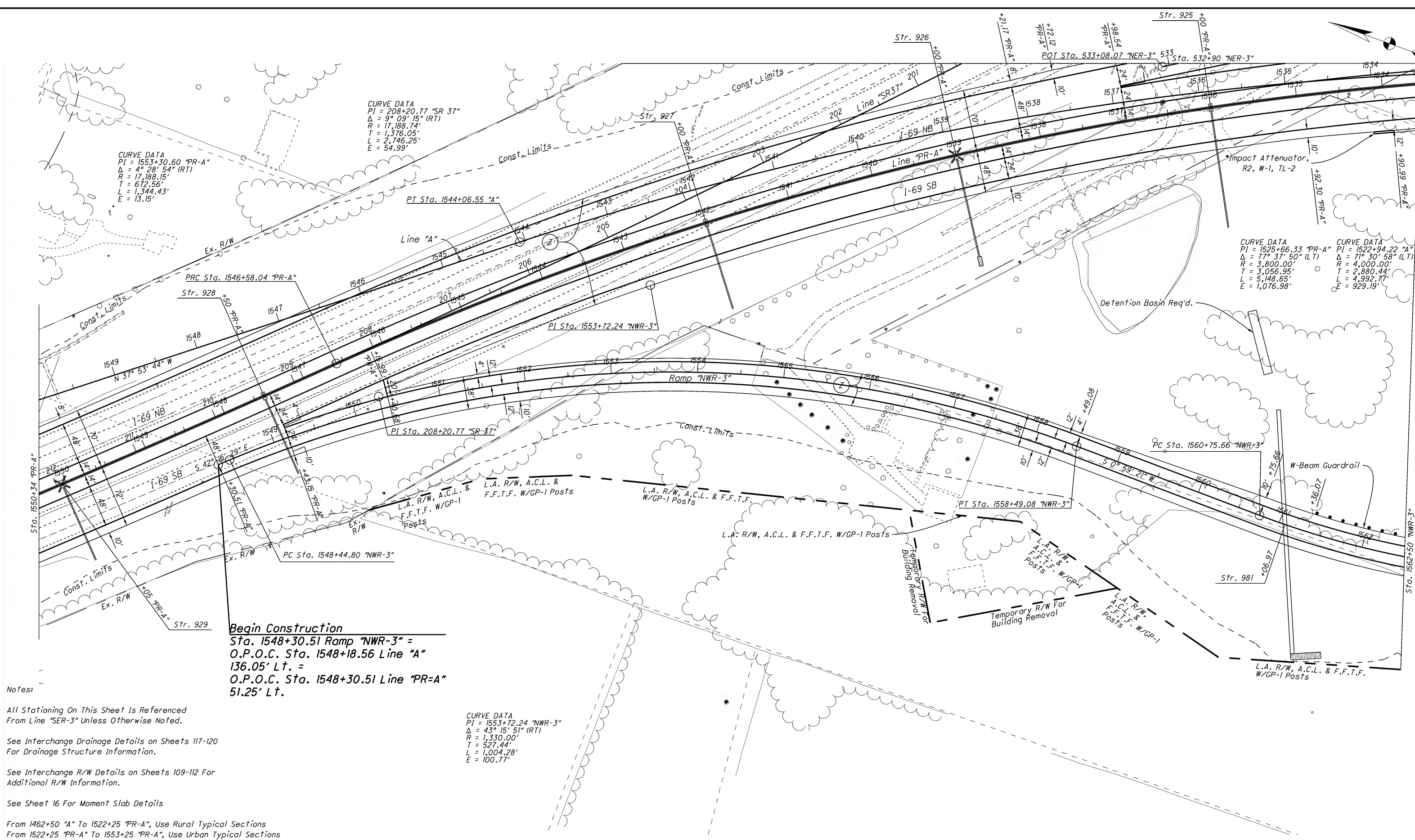
INDIANA  
DEPARTMENT OF TRANSPORTATION

INTERCHANGE R/W DETAILS  
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-04
CONTRACT IR-33742	SHEETS 112 of 173
	PROJECT 1006075

1

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**Begin Construction**  
Sta. 1548+30.51 Ramp "NWR-3" =  
O.P.O.C. Sta. 1548+18.56 Line "A"  
136.05' Lt. =  
O.P.O.C. Sta. 1548+30.51 Line "PR=A"  
51.25' Lt.

- Notes:
- All Stationing On This Sheet Is Referenced From Line "SR-3" Unless Otherwise Noted.
  - See Interchange Drainage Details on Sheets 117-120 For Drainage Structure Information.
  - See Interchange R/W Details on Sheets 109-112 For Additional R/W Information.
  - See Sheet 16 For Moment Slab Details
  - From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections
  - From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials  
For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED:	JB	DRAWN:
CHECKED:	WJW	CHECKED:

INDIANA  
DEPARTMENT OF TRANSPORTATION

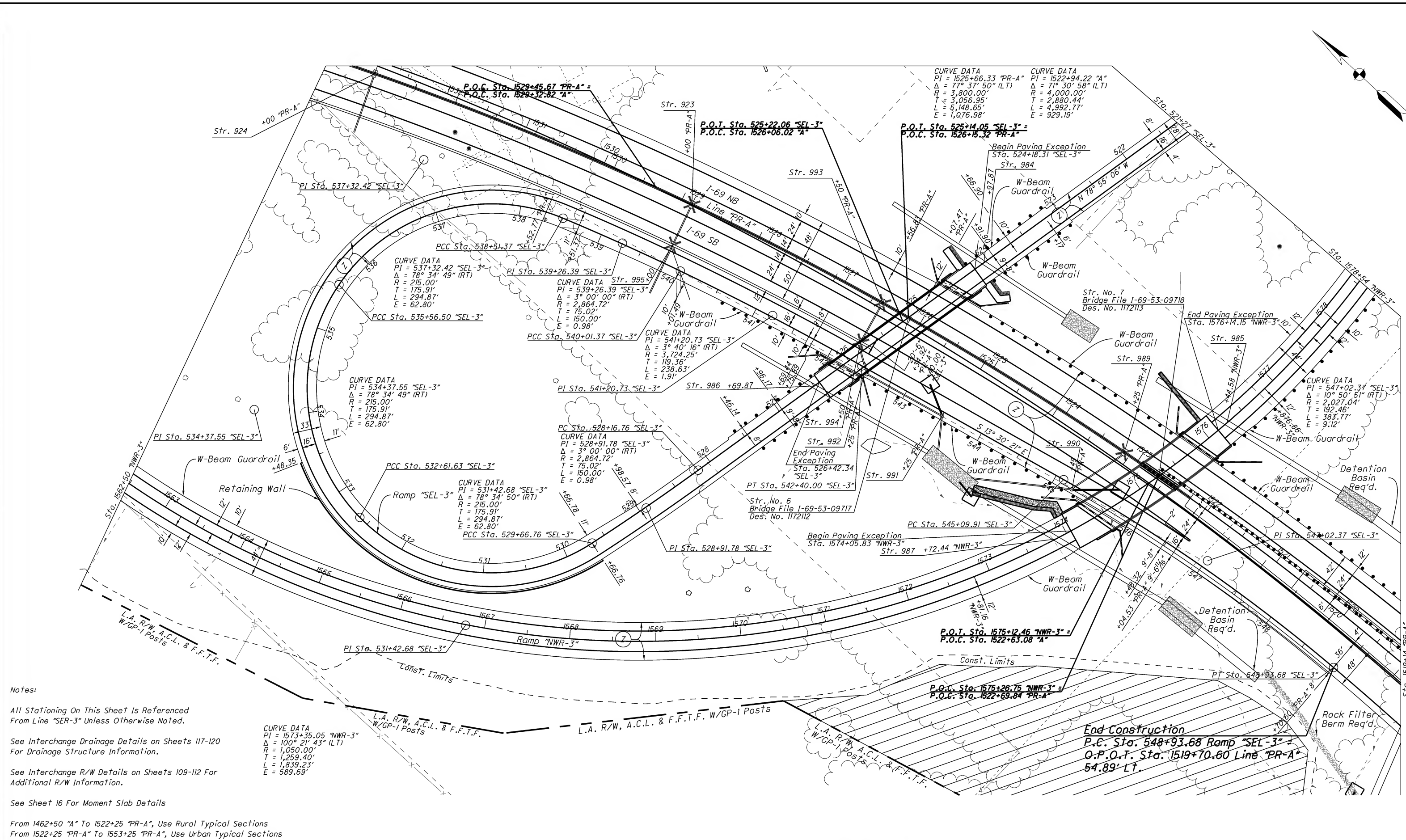
INTERCHANGE CONSTRUCTION DETAILS  
RAMP "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 1C-01
CONTRACT IR-33742	SHEETS 113 of 173
	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels

1

DATE: 10/24/2012  
TIME: 10:36:01 AM  
LOCATION: N-Projects\ES&E\2500\Y Drawings\4. Transp\Road\Road\SSV\9 Detail Sheets\B. Intersection Details\ES&E\2500\1002-SSR.dgn



Notes:

All Stationing On This Sheet Is Referenced From Line "SEL-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120 For Drainage Structure Information.

See Interchange R/W Details on Sheets 109-112 For Additional R/W Information.

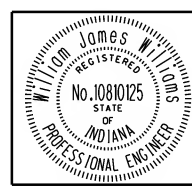
See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections

From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: KCH	9/4/2012
CHECKED: WJW	CHECKED: MDO	

INDIANA  
DEPARTMENT OF TRANSPORTATION

INTERCHANGE CONSTRUCTION DETAILS  
RAMPS "NWR-3" "SEL-3"

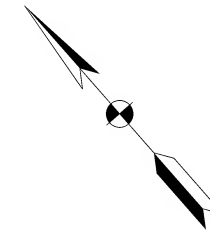
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VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 114 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075

9/25/12 - Revised Ditches and Drainage  
9/25/12 - Updated Notes And Labels  
9/25/12 - Revised Guardrail





CURVE DATA  
 PI = 510+90.32 "NER-3"  
 Δ = 19° 38' 03" (LT)  
 R = 1,500.00'  
 T = 259.55'  
 L = 514.02'  
 E = 22.29'



**Begin Construction**  
 Sta. 501+00.00 "NER-3" =  
 P.O.C. Sta. 167+00.35 Line "SR 37"  
 37.11 Rt.

**Begin Incidental Construction**  
 Sta. 500+00.00 Ramp "NER-3" =  
 P.O.C. Sta. 166+00.91 Line "SR 37"  
 37.05 Rt.

**End Incidental Construction**  
 Sta. 1598+85.14 Ramp "NWR-3" =  
 P.O.C. Sta. 166+00.91 Line "SR 37"  
 36.79 Lt.

**End Construction**  
 Sta. 1597+85.14 "NWR-3" =  
 P.O.C. Sta. 167+00.37 Line "SR 37"  
 36.82 Lt.

CURVE DATA  
 PI = 1586+42.14 "NWR-3"  
 Δ = 50° 40' 14" (RT)  
 R = 1,250.00'  
 T = 591.81'  
 L = 1,105.46'  
 E = 133.02'

**Notes:**

All Stationing On This Sheet Is Referenced  
 From Line "SER-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120  
 For Drainage Structure Information.

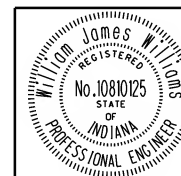
See Interchange R/W Details on Sheets 109-112 For  
 Additional R/W Information.

See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections  
 From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	
DESIGNED: JB	DRAWN: KCH
CHECKED: WJW	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE CONSTRUCTION DETAILS RAMPS "NER-3" "NWR-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL IC-04	PAGE 116 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075

DATE: 10/24/2012  
 TIME: 10:36:04 AM  
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CURVE DATA  
PI = 1525+66.33 "PR-A"  
Δ = 77° 37' 50" (LT)  
R = 3,800.00'  
T = 3,056.95'  
L = 5,148.65'  
E = 1,076.98'

CURVE DATA  
PI = 1522+94.22 "A"  
Δ = 71° 30' 58" (LT)  
R = 4,000.00'  
T = 2,880.44'  
L = 4,932.77'  
E = 929.19'

CURVE DATA  
PI = 547+02.37 "SEL-3"  
Δ = 10° 50' 51" (RT)  
R = 2,027.04'  
T = 192.46'  
L = 383.77'  
E = 9.12'

CURVE DATA  
PI = 1523+26.60 "SER-3"  
Δ = 85° 19' 58" (RT)  
R = 713.00'  
T = 657.16'  
L = 1,061.90'  
E = 256.66'

CURVE DATA  
PI = 1511+18.54 "SER-3"  
Δ = 2° 43' 53" (LT)  
R = 5,001.17'  
T = 119.23'  
L = 238.42'  
E = 1.42'

**Begin Construction**  
Sta. 1511+52.65 "SER-3" =  
O.P.O.C. Sta. 1511+65.67 Line "A"  
89.73 "A" Rt.  
O.P.O.C. Sta. 1511+75.00 Line "PR-A2"  
67.70' Rt.

**Notes:**

All Stationing On This Sheet Is Referenced  
From Line "SER-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120  
For Drainage Structure Information.

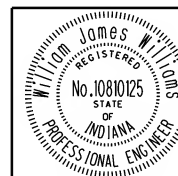
See Interchange R/W Details on Sheets 109-112 For  
Additional R/W Information.

See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections  
From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED  
FOR APPROVAL

*William J. Williams*  
DESIGN ENGINEER  
DATE 9/4/2012

DESIGNED: JB

DRAWN: KCH

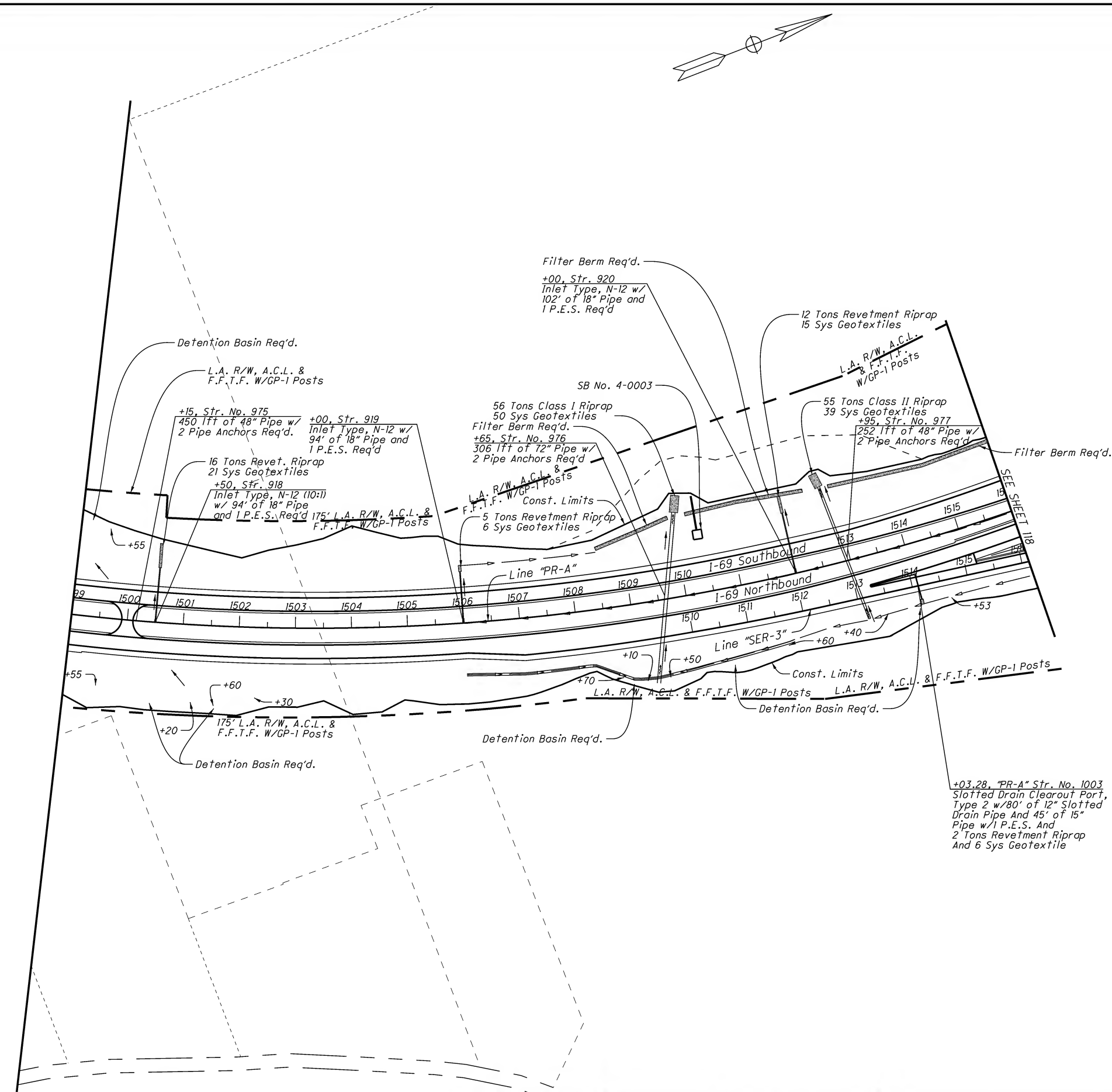
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CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

INTERCHANGE CONSTRUCTION DETAILS  
RAMP "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 116-2 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075



For Riprap at Structure Outlet Details, Filter Berm Details, Spring Box Details, and Detention Basin Details see Sheets 101 - 104.

For geometric information, see Interchange Geometric Layout on Sheets 105 - 108.

For R/W information, see Interchange R/W Details on Sheets 109 - 112.

For additional information, see Interchange Construction Details on Sheets 113 - 116-2.



RECOMMENDED FOR APPROVAL	<i>William J. Jones</i>	9/4/2012
DESIGNED:	JB	DRAWN:
CHECKED:	WJW	CHECKED:

INDIANA  
DEPARTMENT OF TRANSPORTATION

INTERCHANGE DRAINAGE DETAILS  
STA. 1499+00 TO STA. 1516+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE DD-01
CONTRACT IR-33742	SHEETS 117 of 173
	PROJECT 1006075

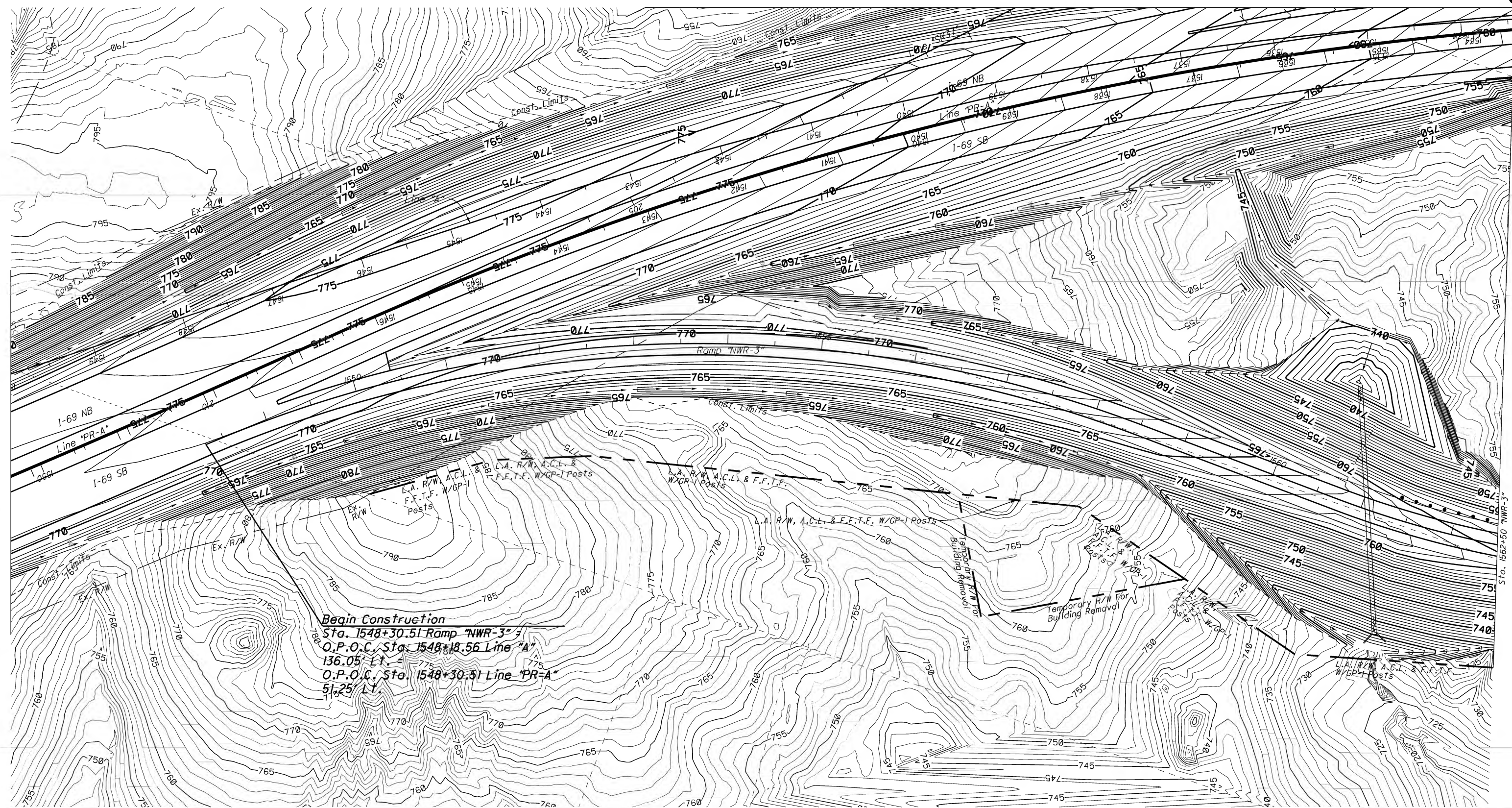
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Begin Construction  
Sta. 1548+30.51 Ramp "NWR-3"  
O.P.O.C. Sta. 1548+18.56 Line "A"  
136.05' LT.  
O.P.O.C. Sta. 1548+30.51 Line "PR-A"  
51.25' LT.

DATE: 10/2/2012  
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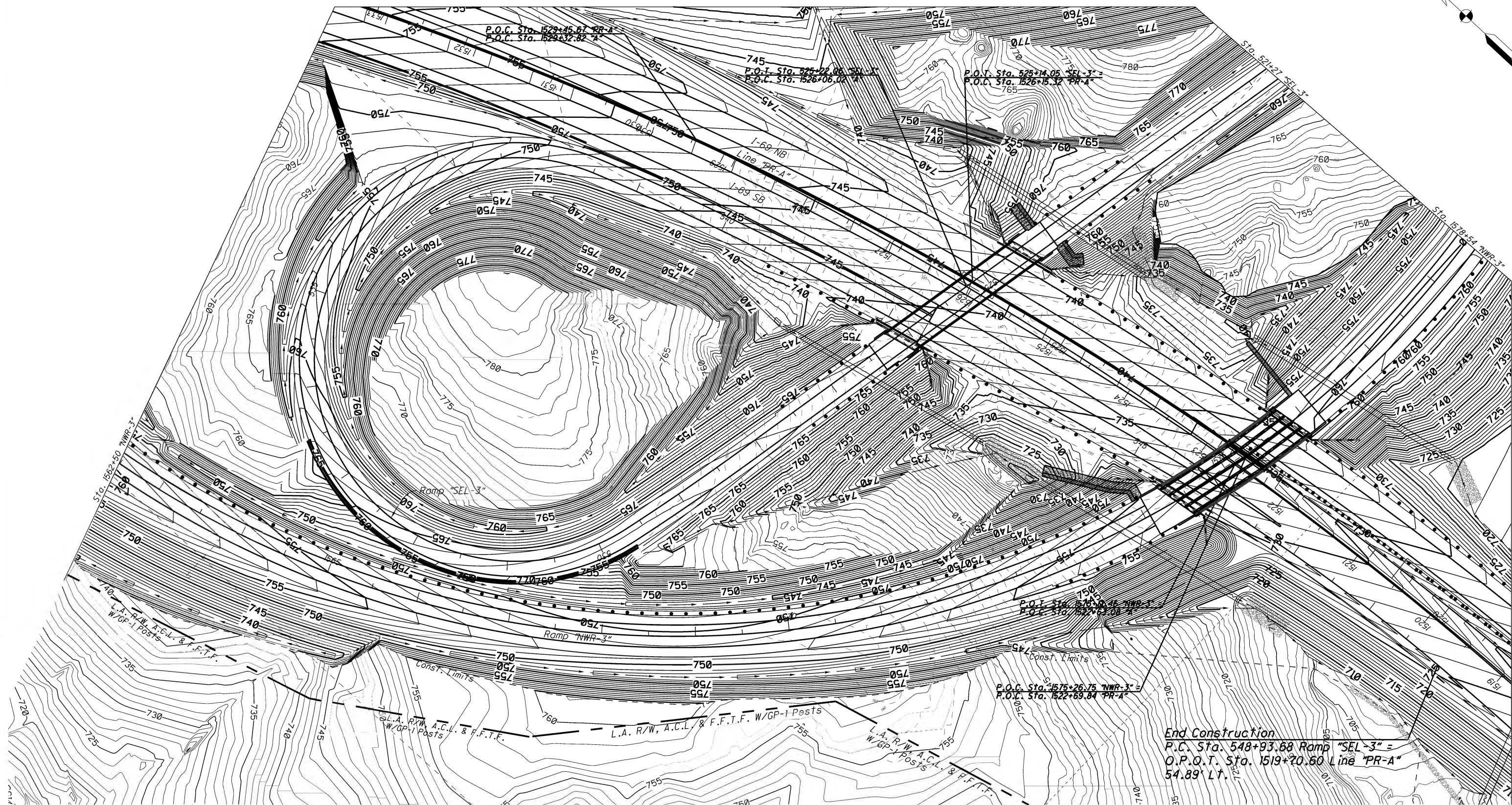


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE GRADING DETAILS  
RAMP "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-01
CONTRACT IR-33742	SHEETS 121 of 173
	PROJECT 1006075





End Construction  
P.C. Sta. 548+93.68 Ramp "SEL-3" =  
O.P.O.T. Sta. 1519+20.60 Line "PR-A"  
54.89' Lt.

DATE: 10/3/2012  
PROJECT: N 1562+50 WMP-3  
LOCATION: N 1562+50 WMP-3  
DRAWING: N 1562+50 WMP-3  
SHEET: 122 of 173

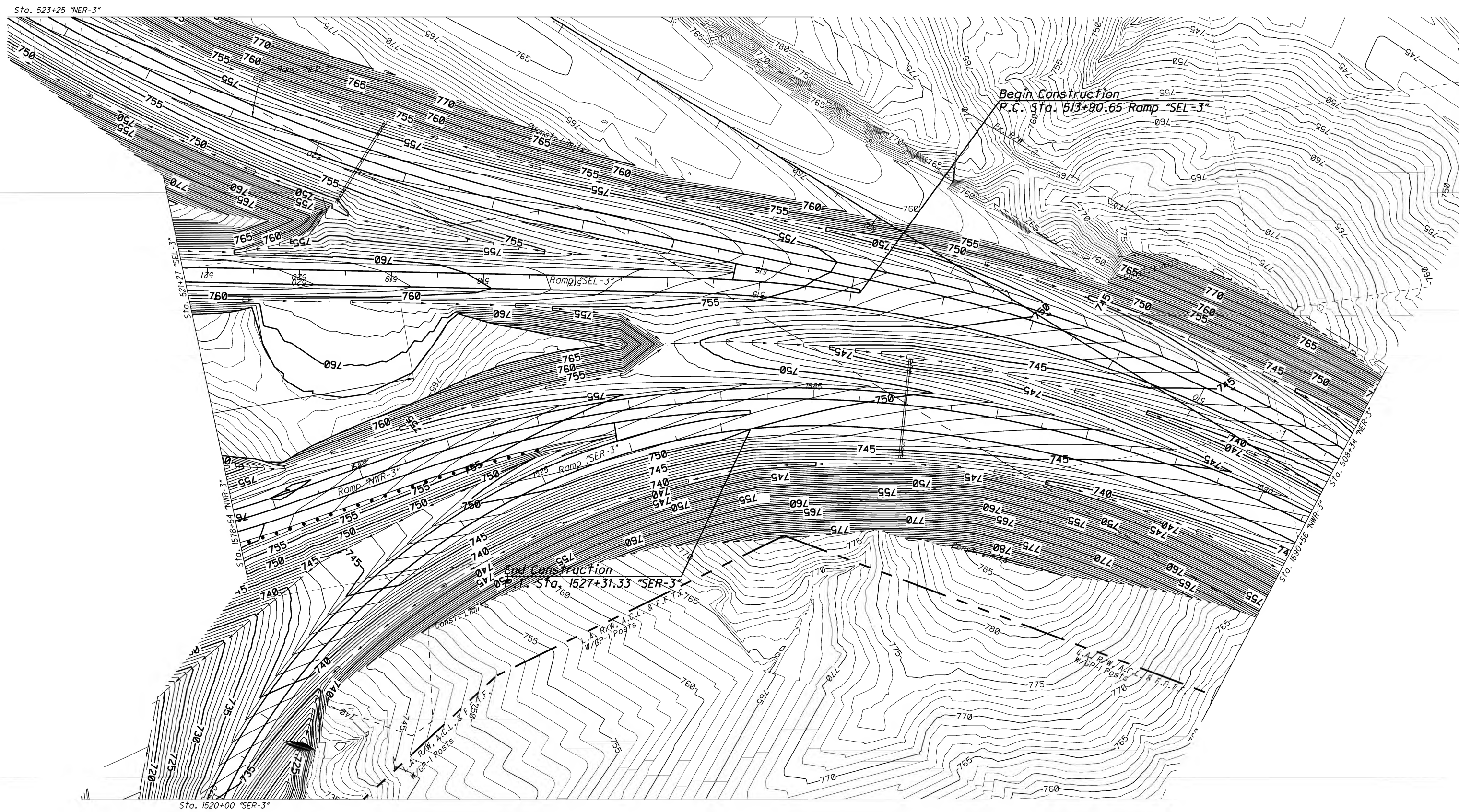


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JB		DRAWN: ETD		9/4/2012	
CHECKED: RT		CHECKED: WJW			

INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE GRADING DETAILS  
RAMPS "NWR-3" "SEL-3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	10-02
CONTRACT	PROJECT
IR-33742	1006075





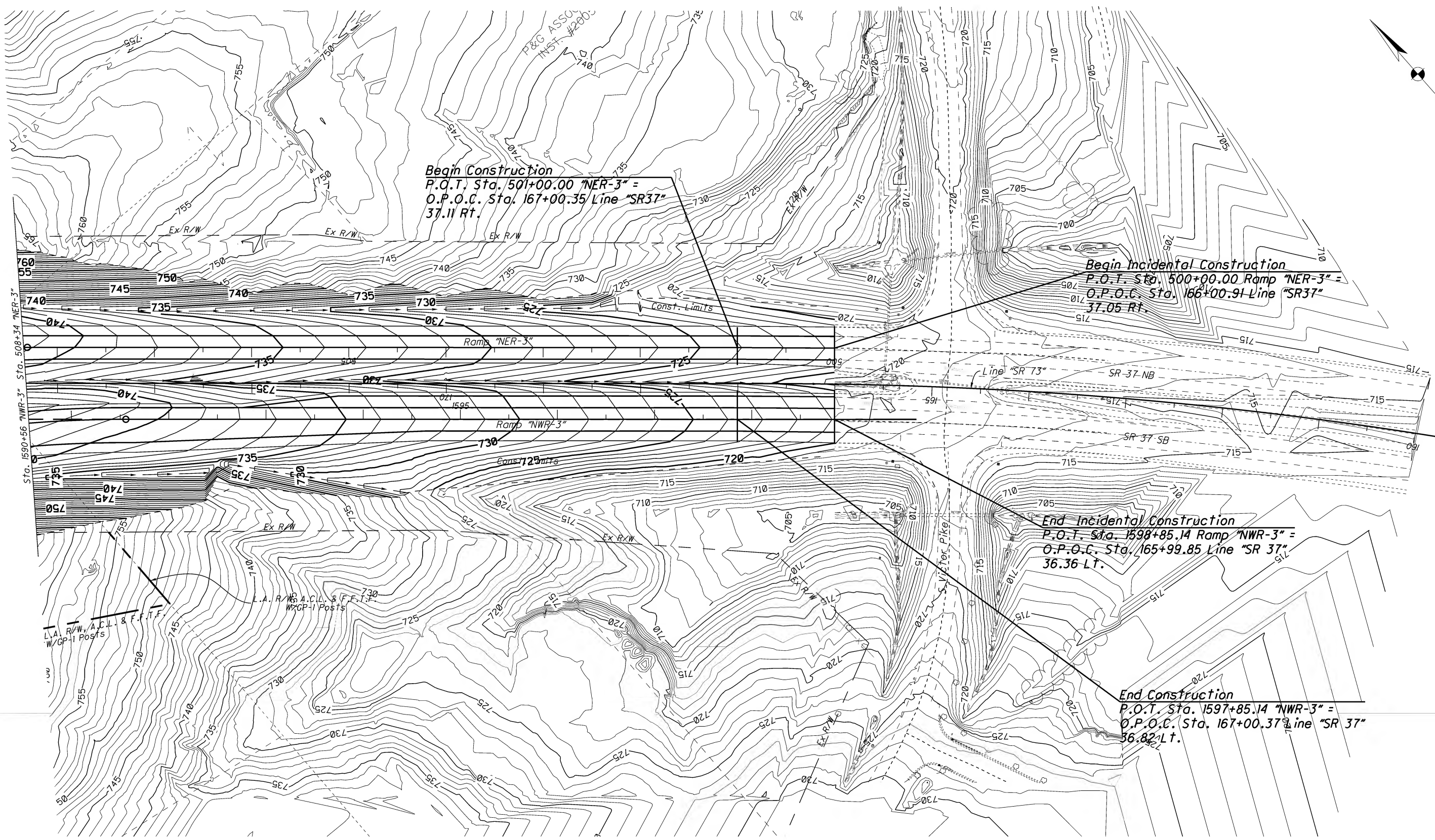
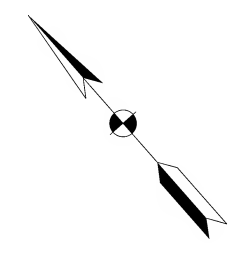
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SHEET: 123 of 173



RECOMMENDED FOR APPROVAL	<i>James W. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
**INTERCHANGE GRADING DETAILS**  
RAMPS "NER-3" "NWR-3" "SEL-3" "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-03
CONTRACT IR-33742	SHEETS 123 of 173
	PROJECT 1006075



DATE: 10/3/2012  
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SHEET: 124 of 173



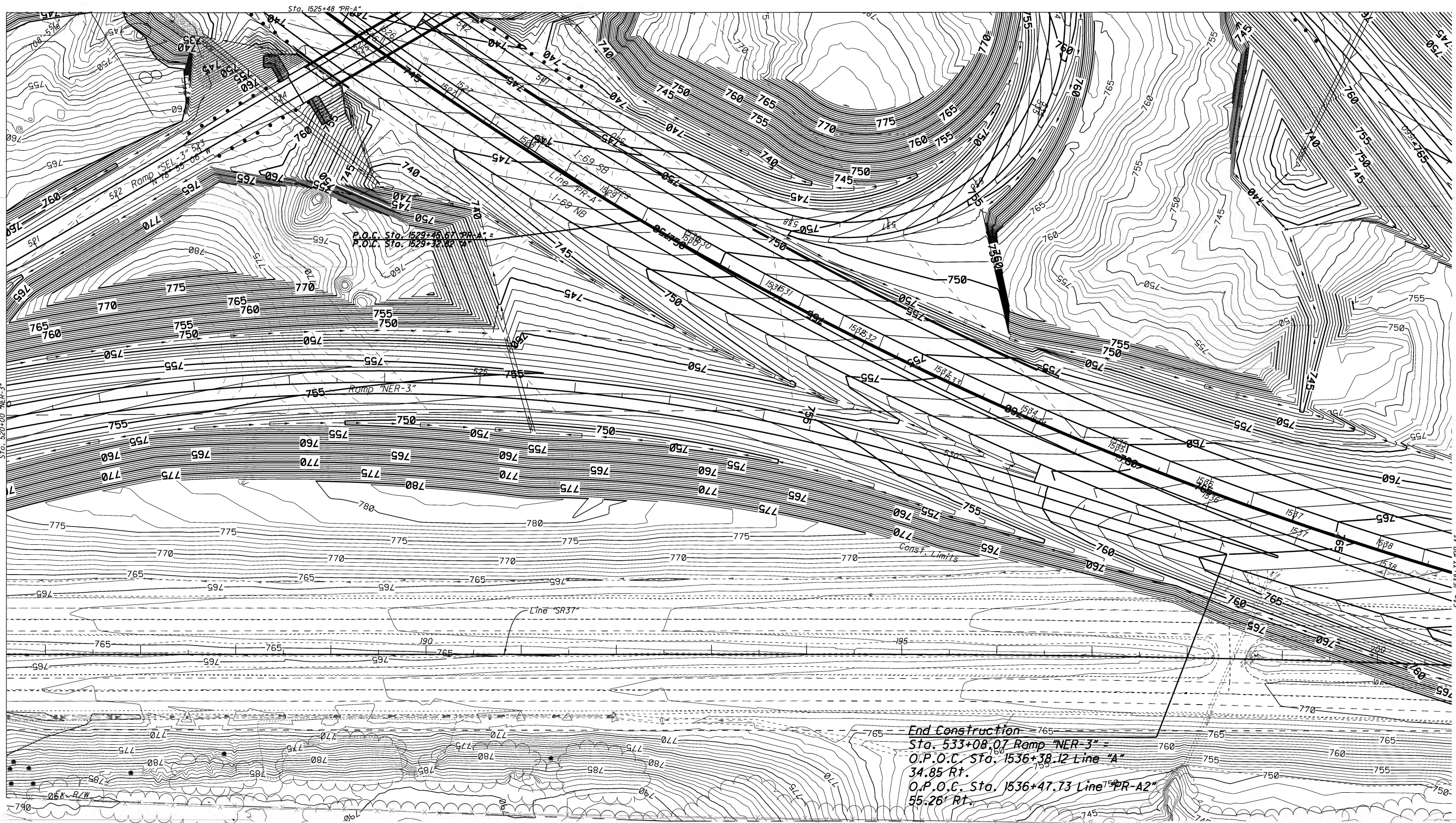
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DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
**INTERCHANGE GRADING DETAILS**  
RAMPS "NER-3" "NWR-3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1006075

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	10-04	124 of 173
CONTRACT	PROJECT	
IR-33742	1006075	





End Construction  
Sta. 533+08.07 Ramp "NER-3"  
O.P.O.C. Sta. 1536+38.12 Line "A"  
34.85 Rt.  
O.P.O.C. Sta. 1536+47.73 Line "PR-A"  
55.26 Rt.

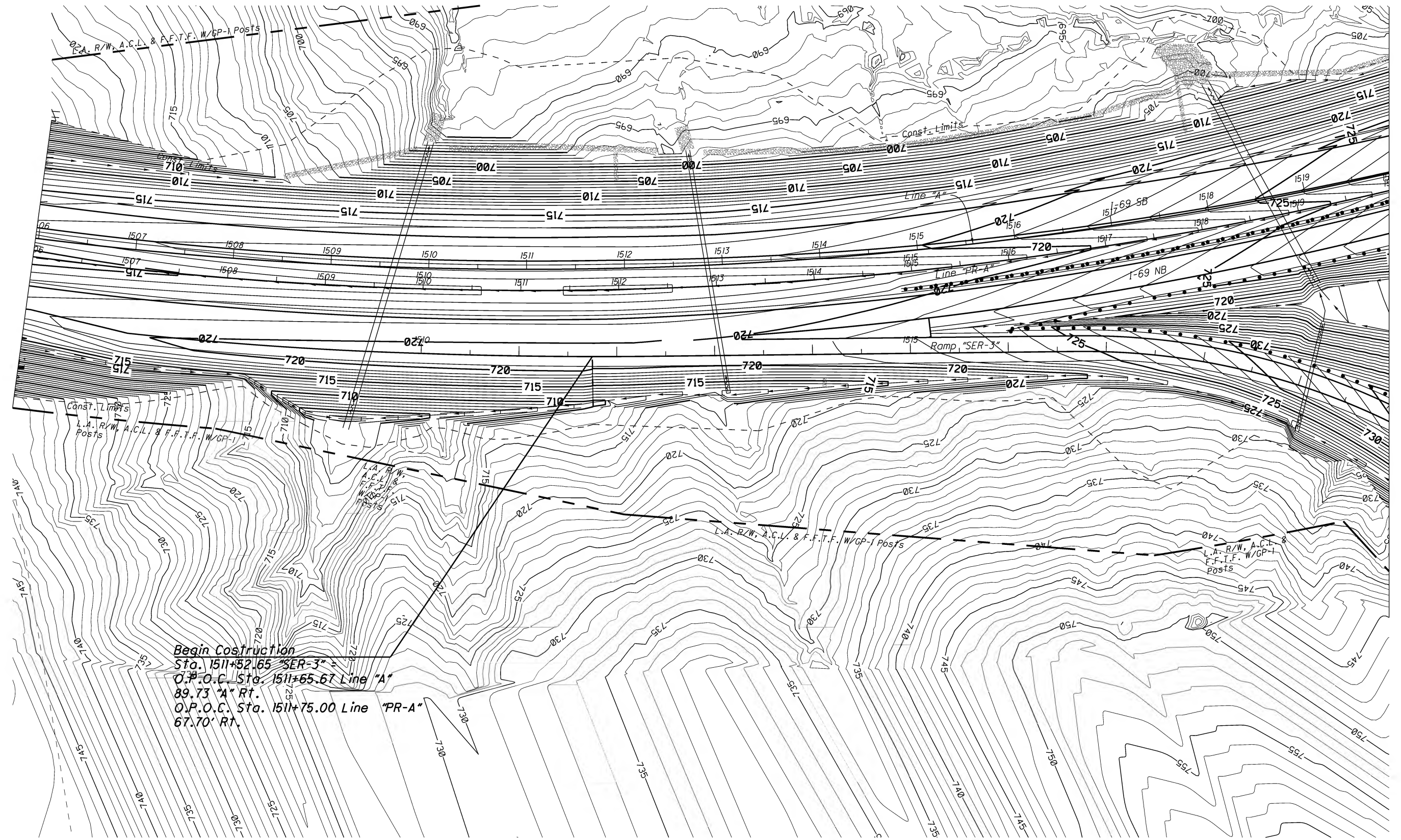
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RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE GRADING DETAILS  
RAMP "NER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-05
CONTRACT IR-33742	SHEETS 125 of 173
	PROJECT 1006075



Begin Construction  
Sta. 1511+52.65 "SER-3"  
O.P.O.C. Sta. 1511+65.67 Line "A"  
89.73 "A" Rt.  
O.P.O.C. Sta. 1511+75.00 Line "PR-A"  
67.70 "A" Rt.

DATE: 10/3/2012  
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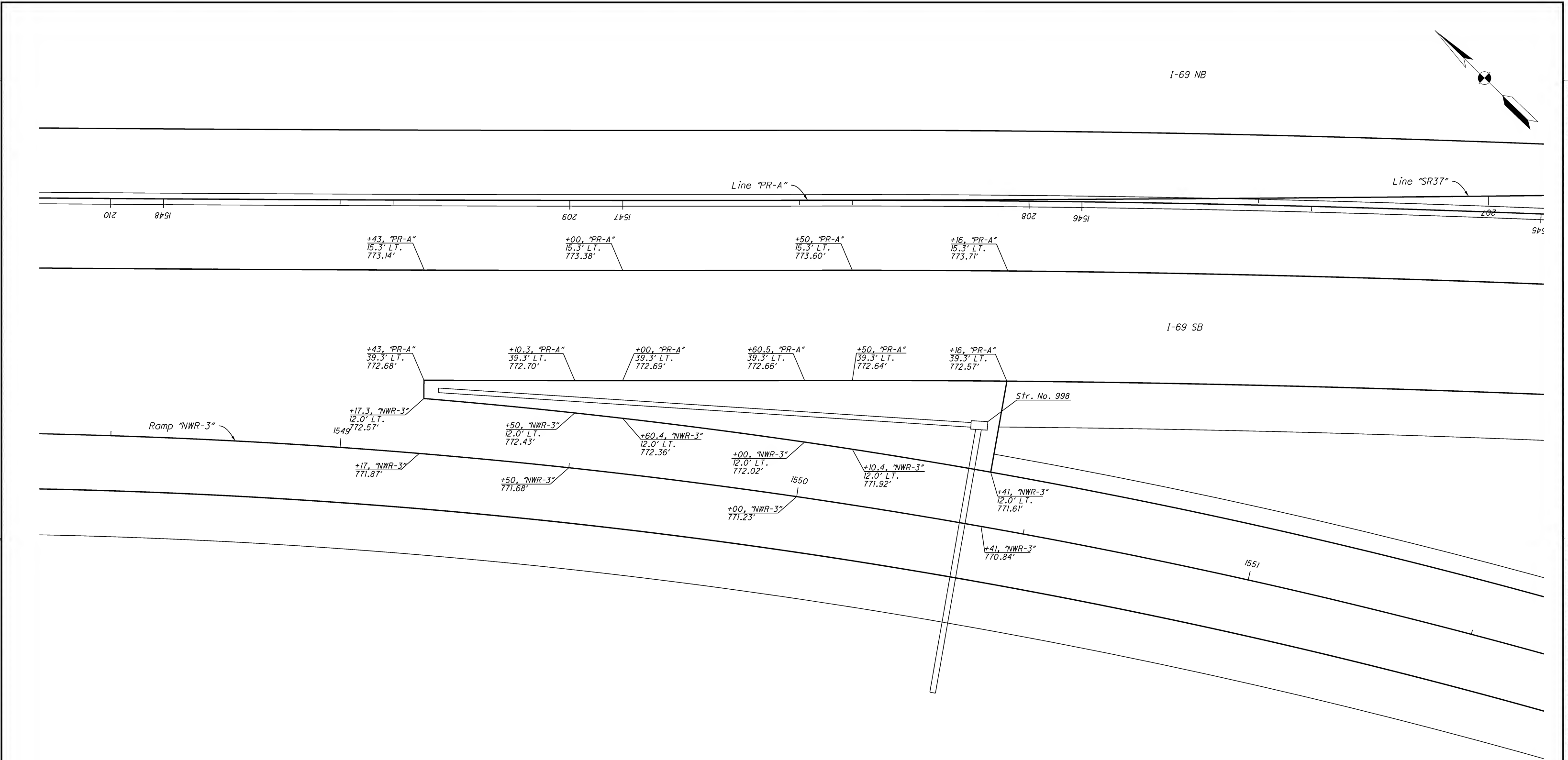
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DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE GRADING DETAILS  
RAMP "SER-3"

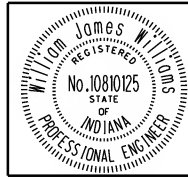
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SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-06
CONTRACT IR-33742	SHEETS 126 of 173
	PROJECT 1006075



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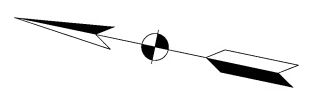
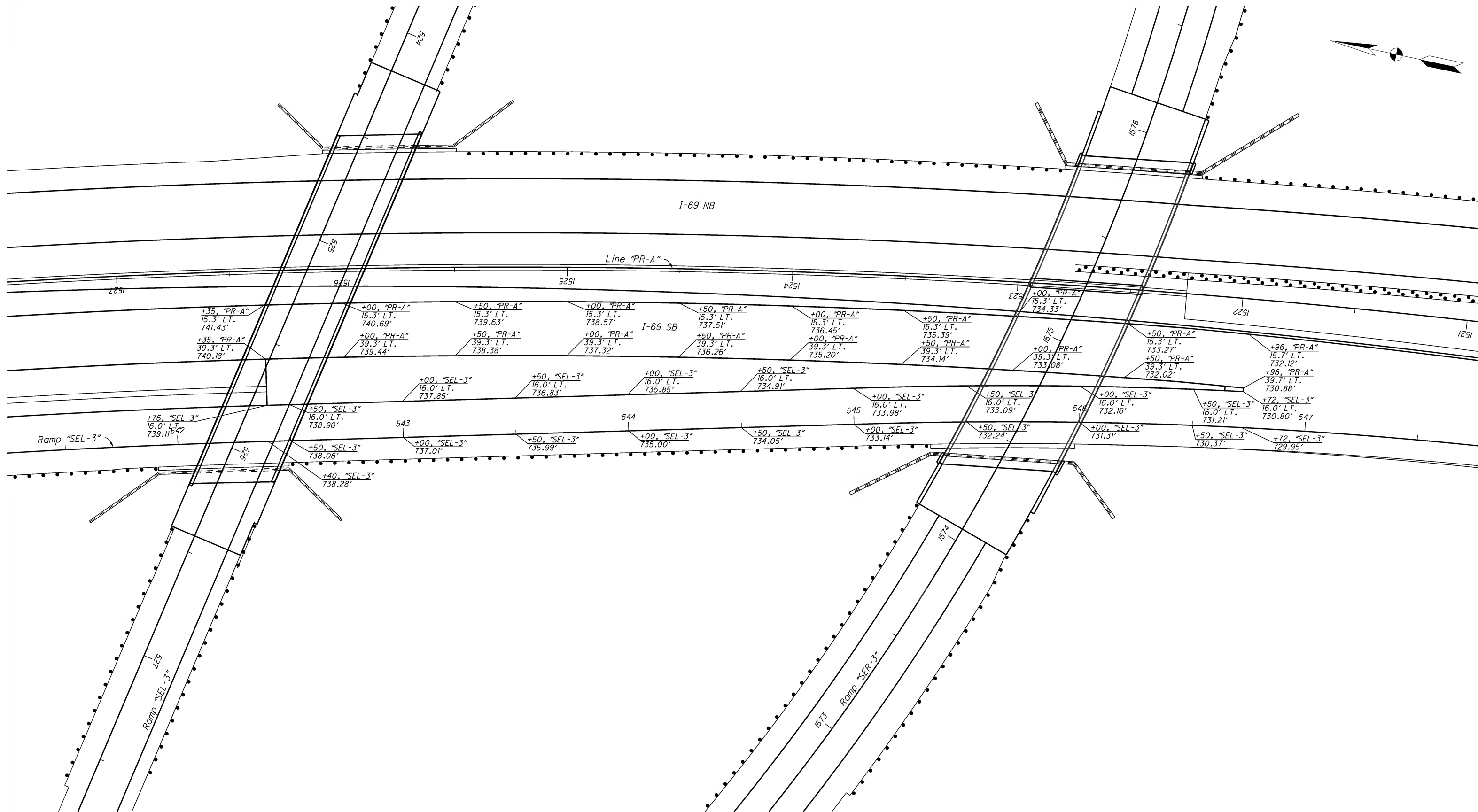
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

INDIANA DEPARTMENT OF TRANSPORTATION	
GORE DETAIL SHEET RAMP "NWR-3"	

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 60-01
CONTRACT IR-33742	SHEETS 127 of 173
	PROJECT 1006075



DATE: 10/3/2012  
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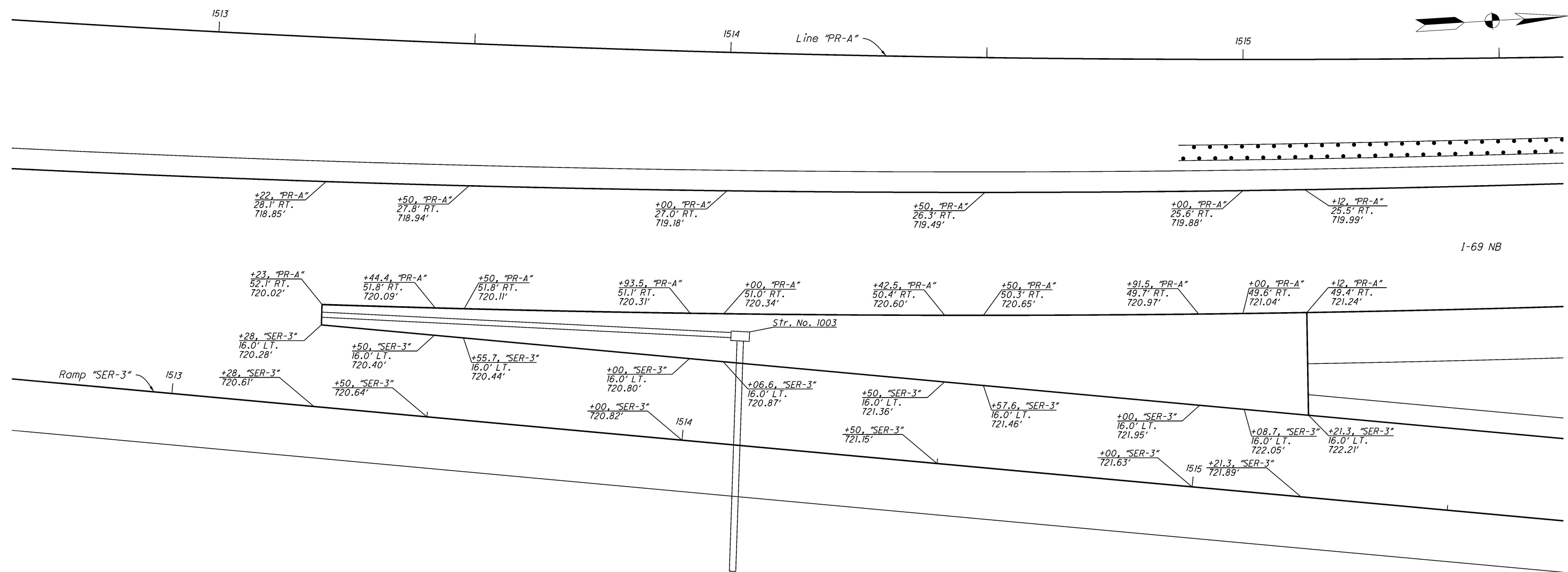
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA  
DEPARTMENT OF TRANSPORTATION

**GORE DETAIL SHEET**  
**RAMP "SEL-3"**

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE DESIGNATION 1006075
VERTICAL SCALE N/A	
SURVEY BOOK ELECTRONIC / AERIAL GD-02	PAGE 128 of 173
CONTRACT IR-33742	PROJECT 1006075

DATE: 10/3/2012  
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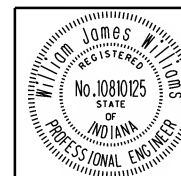
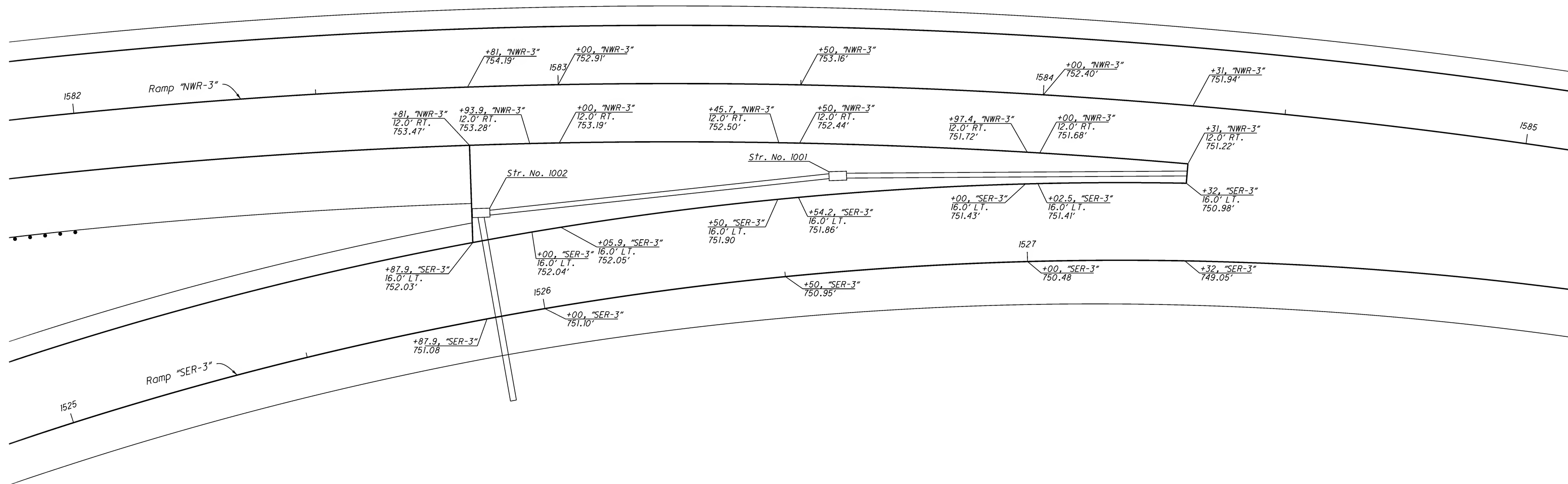
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RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

INDIANA DEPARTMENT OF TRANSPORTATION	
GORE DETAIL SHEET RAMP "SER-3"	

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE DESIGNATION 1006075
VERTICAL SCALE N/A	
SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE 60-03 PROJECT 1006075
SHEETS 129 of 173	



RECOMMENDED  
FOR APPROVAL

*William J. Williams*  
DESIGN ENGINEER DATE 9/4/2012

DESIGNED: JB

DRAWN: ETD

CHECKED: RT

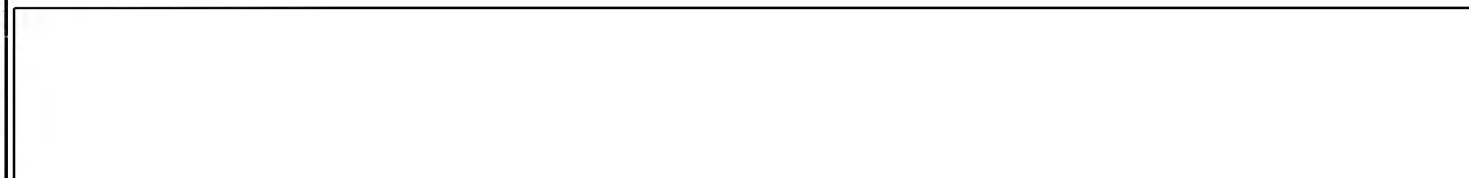
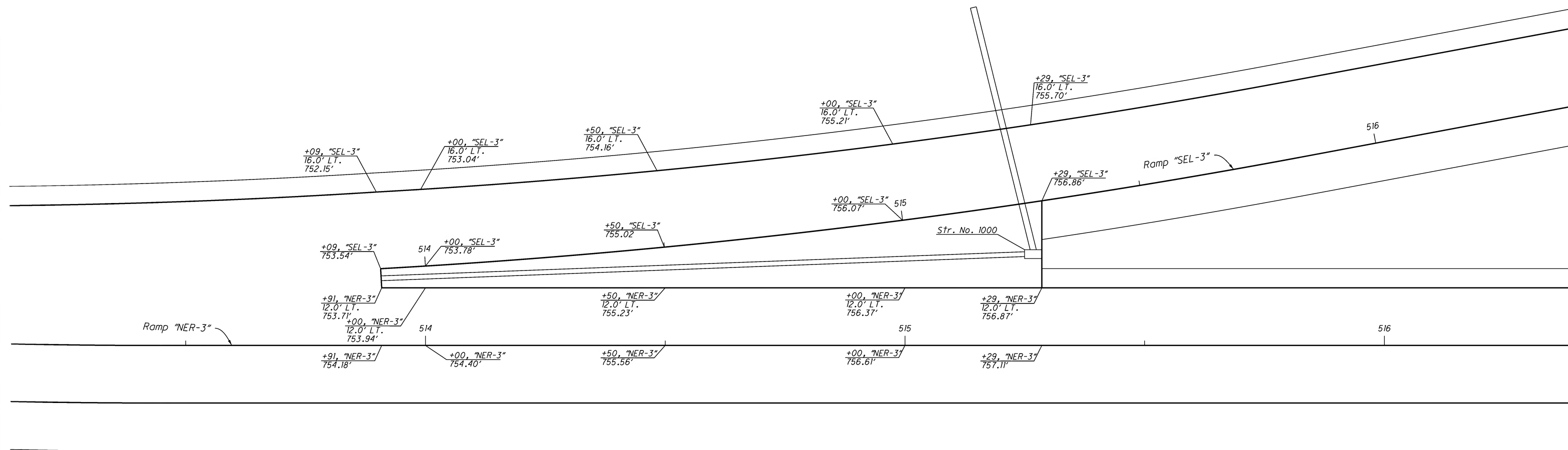
CHECKED: WJW

INDIANA  
DEPARTMENT OF TRANSPORTATION

GORE DETAIL SHEET  
RAMP "SER-3"

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1" = 10'	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	60-04
CONTRACT	130 of 173
IR-33742	PROJECT
	1006075



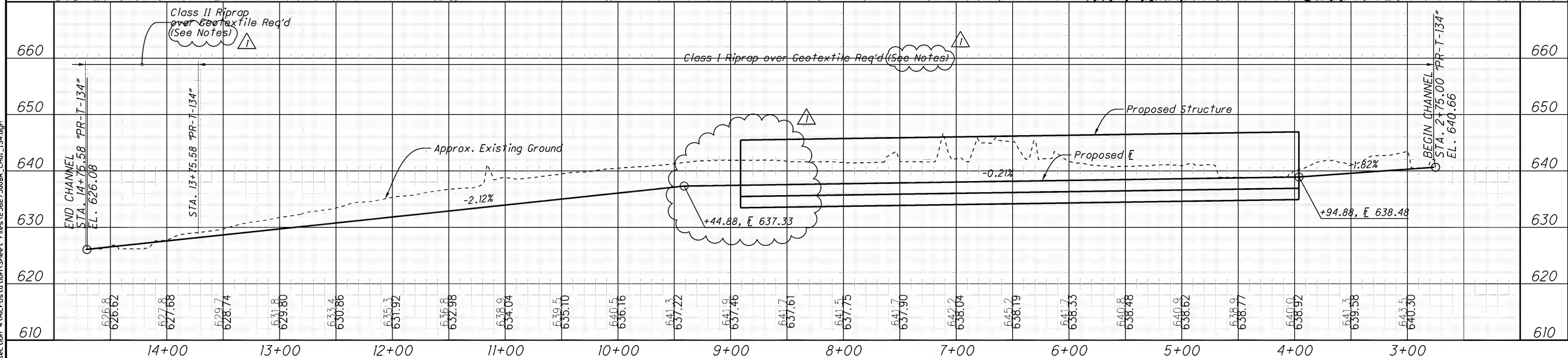
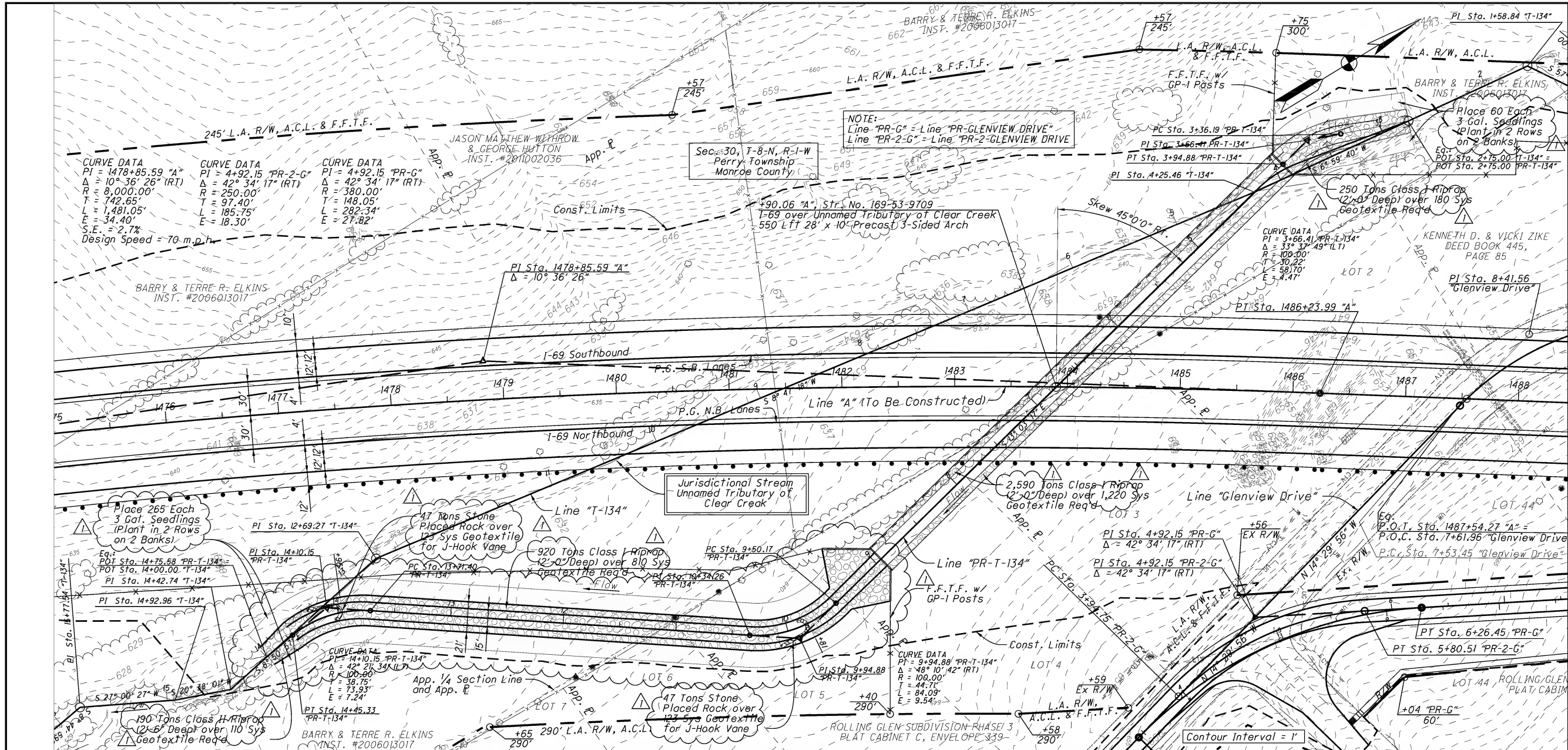


RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
GORE DETAIL SHEET RAMP "SEL-3"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 60-05
CONTRACT IR-33742	SHEETS 131 of 173
	PROJECT 1006075





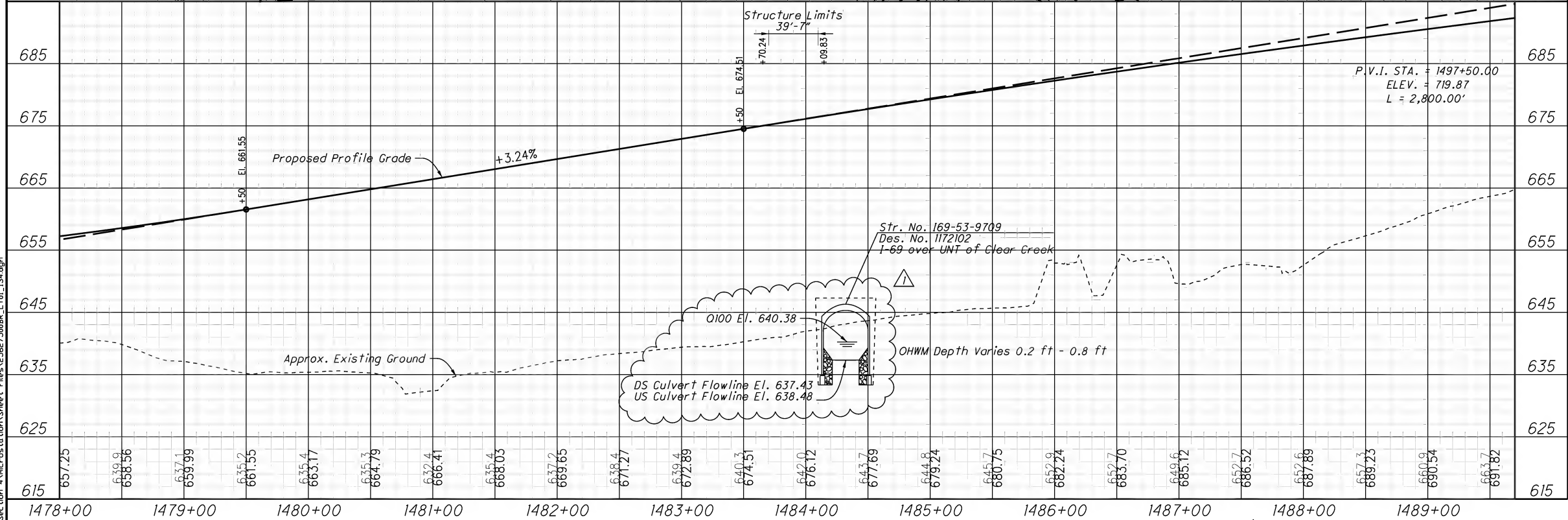
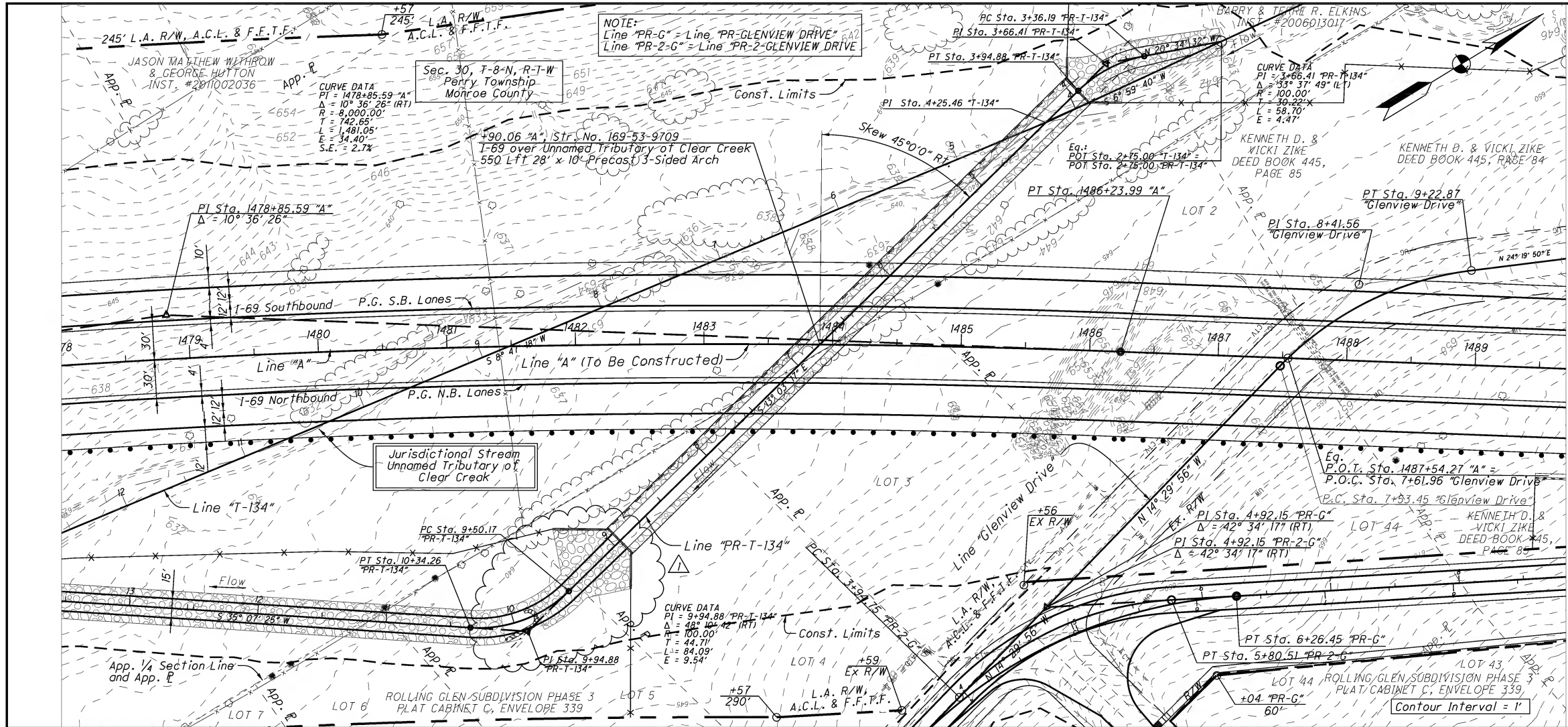
Notes:  
1. Riprap Channel Protection shown assumes no durable rock within Channel relocation limits. However, quantities are computed assuming 50% of the relocated channel will encounter durable rock.  
2. See Sheet 99 for Typical Channel Sections & Stream Mitigation Details.

**CHANNEL CHANGE LAYOUT**  
**PRECAST REINFORCED CONCRETE**  
**3 SIDED STRUCTURE**  
1 SPAN @ 28'-0" RISE 10'-0" 45° SKEW RIGHT  
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

	RECOMMENDED FOR APPROVAL	DESIGNED: JWF	DRAWN: BDM	DATE: 9/1/2012
	CHECKED: BMG	CHECKED: JWF		
	INDIANA DEPARTMENT OF TRANSPORTATION			
	CHANNEL CHANGE LAYOUT I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK			

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 169-53-9709
VERTICAL SCALE 1" = 10'	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CH-01
CONTRACT IR-33742	SHEETS 132 of 173
	PROJECT 1006075





PRESENT STRUCTURE  
None.

UTILITIES  
See Page IX-01.

EARTHWORK SUMMARY  
See Road Plans, Des. No. 1006075

HYDRAULIC DATA

Drainage Area	0.66 sq. mi.
O100 Discharge	609 cfs
O100 Elevation	640.38 ft
Gross Waterway Area Req'd (below O100 El.)	82.6 sft
Gross Waterway Area Provided (below O100 El.)	82.6 sft
Proposed Road Overflow Area	N/A
O100 Velocity	8.8 ft/s
Proposed Backwater	0.05 ft
Low Structure El.	645.43 (d.s.)
Flowline El.	637.43 (d.s.)

ALTERNATE STRUCTURE - FLAT TOP CULVERT 28' x 8'  
(6' Rise Above E)

Gross Waterway Area Req'd (below O100 El.)	82.7 sft
--	----------

ALTERNATE STRUCTURE - TRUE ARCH CULVERT 30' x 12.5'  
(10'-6" Rise Above E)

Gross Waterway Area Req'd (below O100 El.)	84.6 sft
--	----------

Note:  
See Sheet 21 for Benchmark Data  
See Sheet 99 for Typical Channel Sections  
See Sheet 99 & 132 for Stream Mitigation Details  
Riprap Channel Protection shown assumes no durable rock within channel relocation limits.

LAYOUT

PRECAST REINFORCED CONCRETE  
3 SIDED STRUCTURE  
1 SPAN @ 28'-0" RISE 10'-0" 45° SKEW RIGHT  
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWF	DRAWN: BDM	
CHECKED: BMG	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
LAYOUT
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 169-53-9709
VERTICAL SCALE 1" = 10'	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE LY-01
CONTRACT IR-33742	SHEETS 133 of 173
	PROJECT 1006075

FOUNDATION REQUIREMENTS	
Allowable Factored Bearing Resistance =	25,000 psf
Resistance Factor =	0.45
Interface Friction Angle Between Str. Backfill and Concrete =	17°
Angle of internal friction for Structure Backfill =	32°
Interface Friction Angle Between Limestone and Concrete =	35°

DESIGN DATA

Live Load

The Structure shall be designed for HL-93 Loading in accordance with the AASHTO LRFD Bridge Design Specifications, 5th edition (2010) and subsequent interims.

Dead Load

Designed for self-weight plus 35 psf wearing surface

SEISMIC DESIGN DATA

Seismic Performance Zone = I

GENERAL NOTES

No. 8 Aggregate shall be used for Structure Backfill.

If cohesive soils are encountered at the proposed footing grade, they shall be completely removed to sound rock and replaced with Portland Cement Concrete, or the bottom of the footing shall be extended to the sound rock elevation. All associated costs shall be included in the cost of the structure.

A representative of the Geotechnical Engineer should verify the bearing conditions at the footing grade prior to foundation construction.

See Geotechnical Technical Memorandum, Str. 169-53-9709 for additional information.

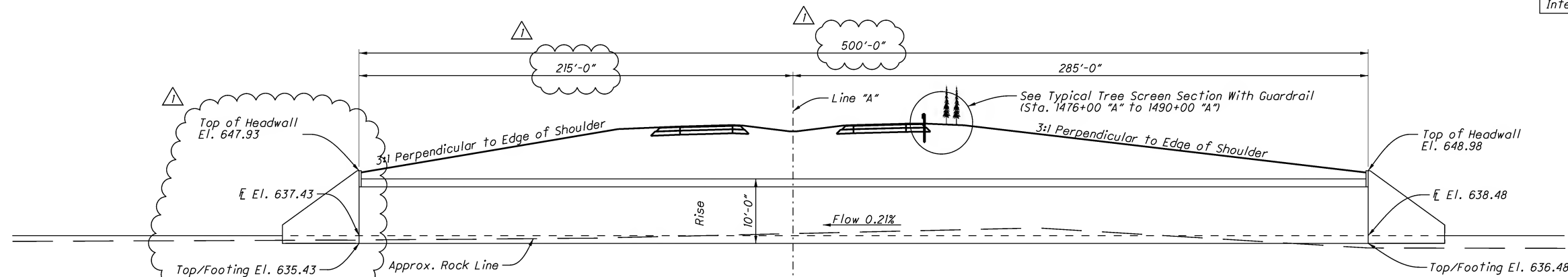
Channel Protection assumes no durable rock within relocation limits shown.

- See Sheet 135 for Section A-A.
- See Sheet 99 & 132 for Stream Mitigation Details.

GENERAL PLAN

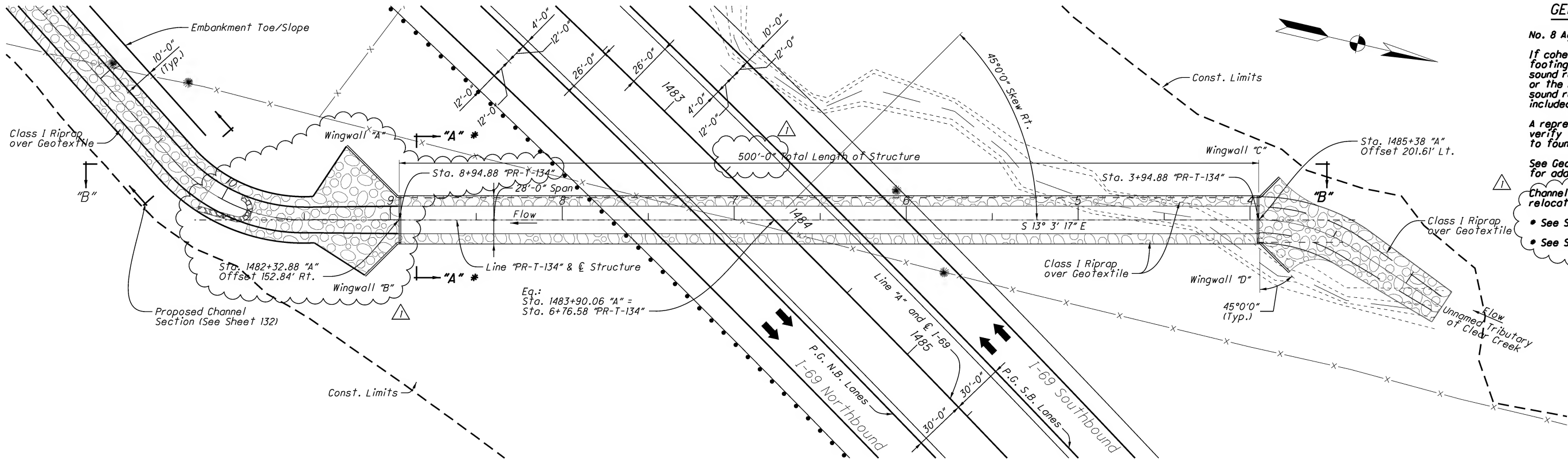
PRECAST REINFORCED CONCRETE  
3 SIDED STRUCTURE

1 SPAN @ 28'-0" RISE 10'-0" 45° SKEW RIGHT  
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK



SECTION "B-B"

Scale: Not to Scale



PLAN

Scale: 1" = 30'-0"

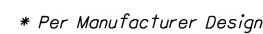
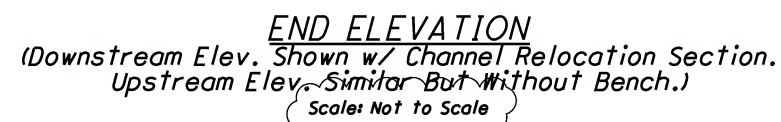
An Alternate Structure type Flat Top Culvert with a 28'-0" perpendicular span and 8' rise may be substituted for the structure shown on the Layout Sheet.  
An Alternate Structure type True Arch Culvert with a 30'-0" perpendicular span and 12.5' rise may be substituted for the structure shown on the Layout Sheet.




RECOMMENDED FOR APPROVAL	DESIGNED: JWF	DRAWN: BDM
CHECKED: BMG	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 169-53-9709
VERTICAL SCALE AS NOTED	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-01
CONTRACT IR-33742	SHEETS 134 of 173
	PROJECT 1006075



1 SPAN @ 28'-0": RISE 10'-0": 45° SKEW RIGHT  
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

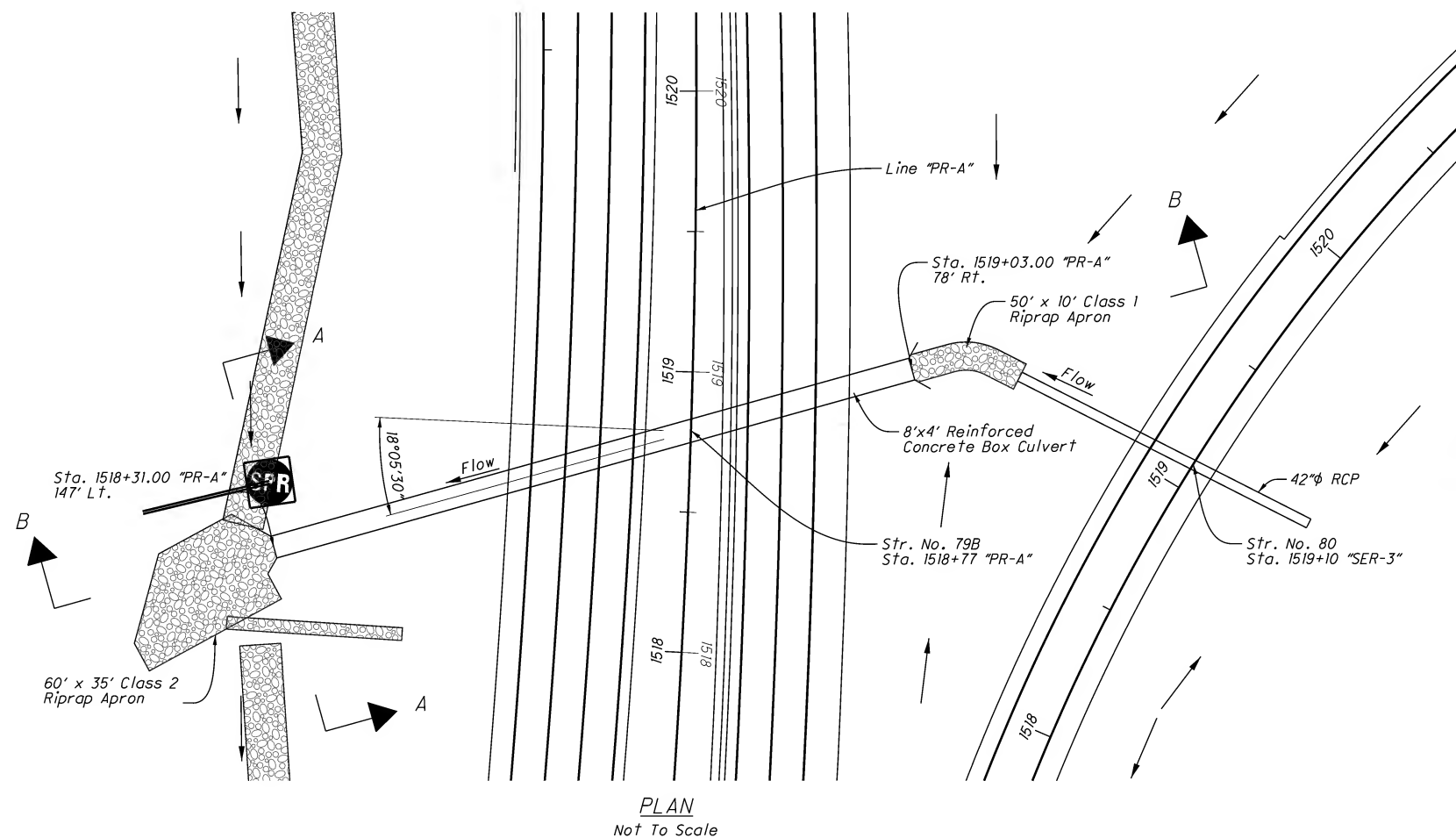


DESIGNED: JWF	DRAWN: BDM
CHECKED: BMG	CHECKED: JWF

**GENERAL PLAN**  
**I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK**

HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	169-53-9709	
VERTICAL SCALE	DESIGNATION	
AS NOTED	1172102	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	GP-02	135 of 173
CONTRACT	PROJECT	
IR-33742	1060675	





#### HYDRAULIC DATA

Drainage Area	0.04 Sq. Miles
Design Discharge (Q100)	105.10 CFS
Hydraulic Area Required (Below Q100)	16.69 SFT
Hydraulic Area Provided (Below Q100)	16.69 SFT
Low Structure Elevation	719.00 Upstream
Q100 Highwater Elevation	705.00 Downstream
Serviceability Freeboard	717.88 Ft.
Outlet Velocity @ Q100	8.12 Ft.
Backwater	11.17 FPS
Skew	0.35 Ft.
	18°05'30"

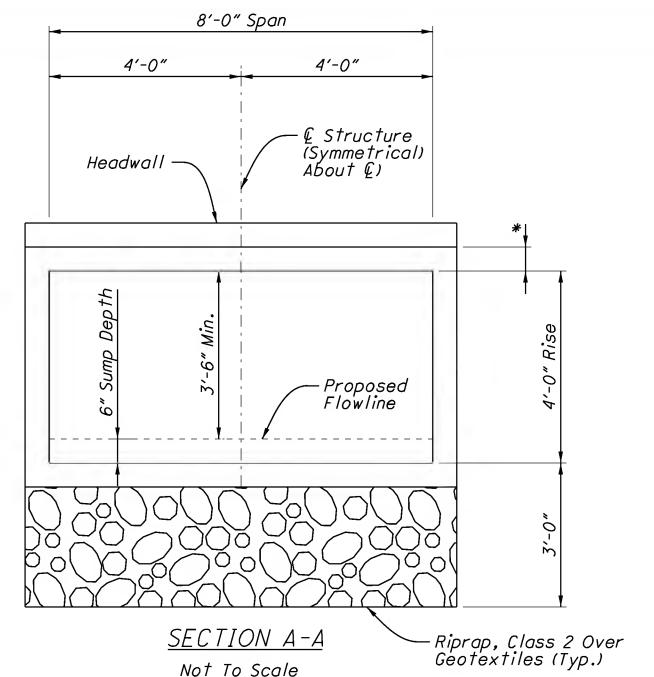
#### NOTES:

\* - Indicates Dimensions to be Determined By the Precast Unit Manufacturer.

\* - See Roadway Cross Sections For Slopes

Factored Bearing Resistance = 3,000 psf

An Alternate Structure Type With a 8'-0" Perpendicular Span and a 4'-0" Rise or Similar That Matches The Required Waterway Opening May Be Substituted For The Structure Shown.



#### DESIGN DATA

Designed For HL93 Loading in Accordance With AASHTO LRFD Bridge Design Specifications, Fifth Edition, and All Subsequent Interims. Dead Loads Increased 35 psf For Future Wearing Surface.

#### DESIGN STRENGTHS

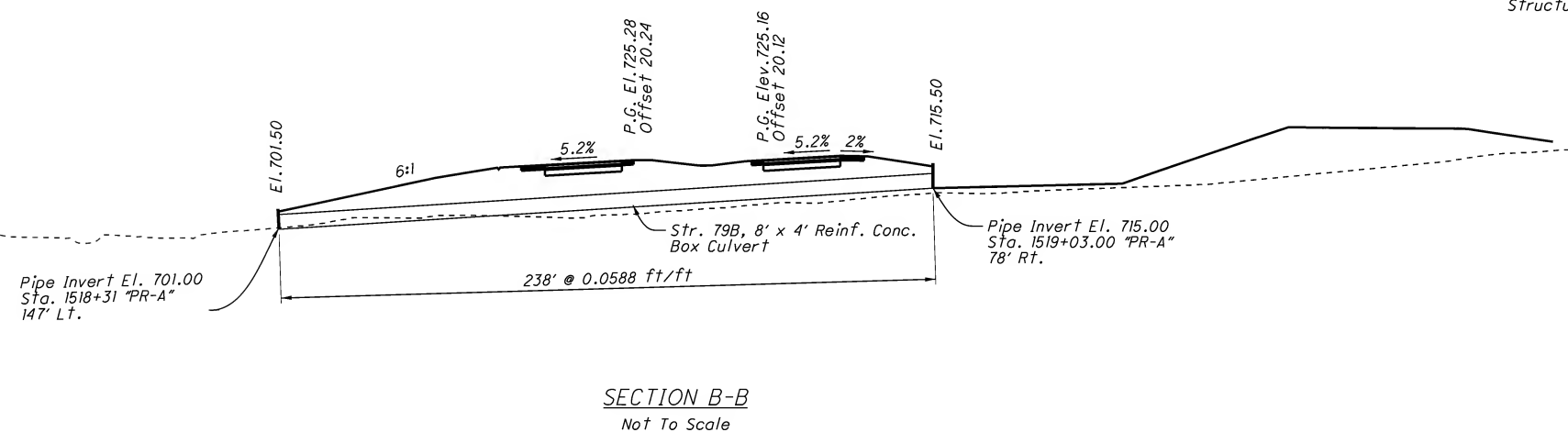
The Minimum Design Concrete Compressive Strength For Structure Sections Shall Be 5,000 psi. For Headwalls, Wingwalls, and Spandrel Walls It Shall Be 4,000 psi.

#### WINGWALL SOIL PARAMETERS

Angle of Friction Between Wingwall Footing and Foundation Soil ( $\phi$ )	= 17°
Angle of Internal Friction of the Foundation Soil ( $\phi$ )	= 32°
Ultimate Cohesion of Foundation (C)	= 1,250 psf
Ultimate Adhesion Between Foundation Soil and Concrete (C)	= 600 psf

#### GENERAL NOTES

- 1.) Provide Headwalls for structure
- 2.) Structure shall be sumped 6".
- 3.) Backfill with No. 8 aggregate.
- 4.) Springbox shall be req'd.



SWALE TO UNNAMED TRIBUTARY OF CLEAR CREEK UNDER I-69  
 PRECAST REINFORCED  
 CONCRETE STRUCTURE  
 1 SPAN @ 8'-0"  
 18°05'30" SKEW LT.  
 4'-0" RISE

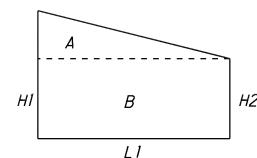
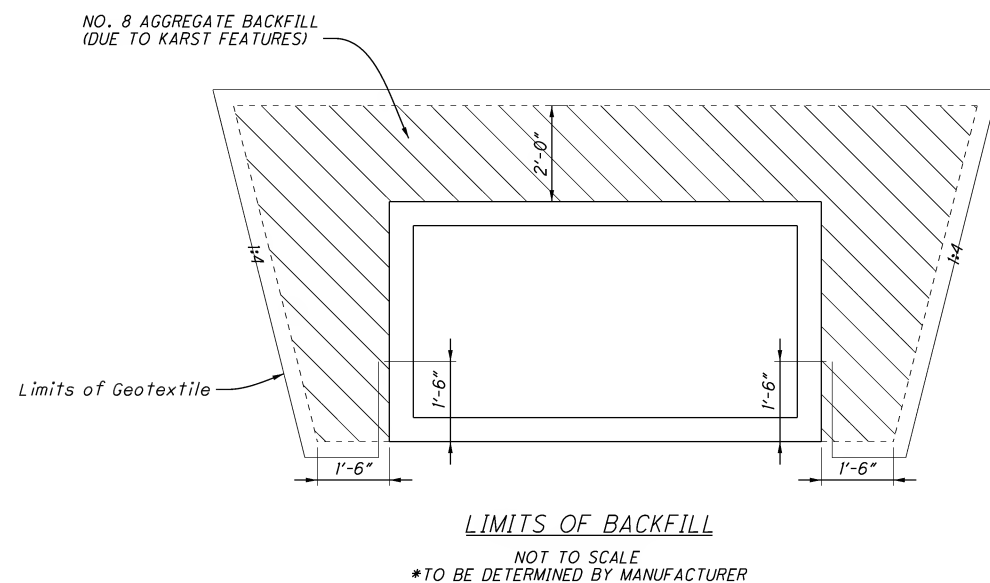
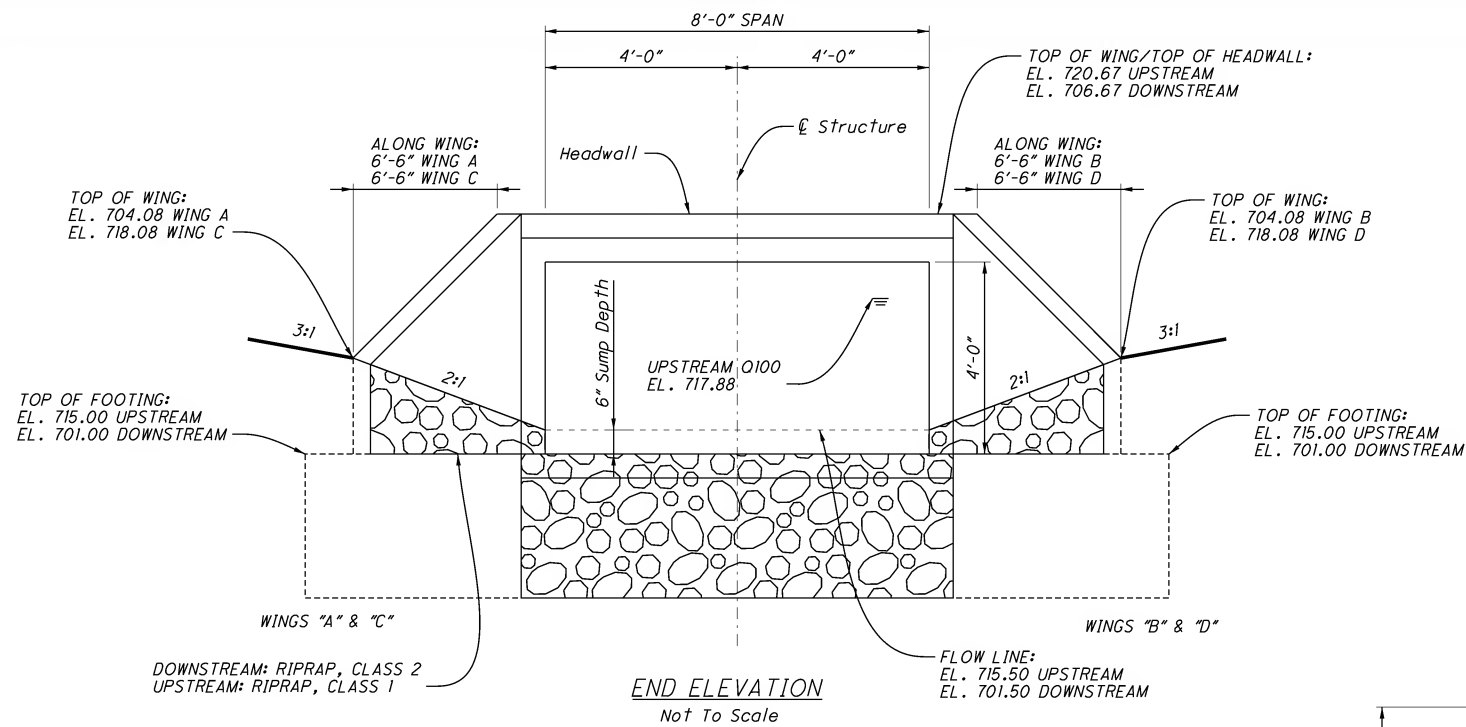
SH Sink Hole	SPR Spring
--------------	------------



RECOMMENDED FOR APPROVAL	DESIGNED: JWF	DRAWN: SMS
CHECKED: MDO	CHECKED: JWF	

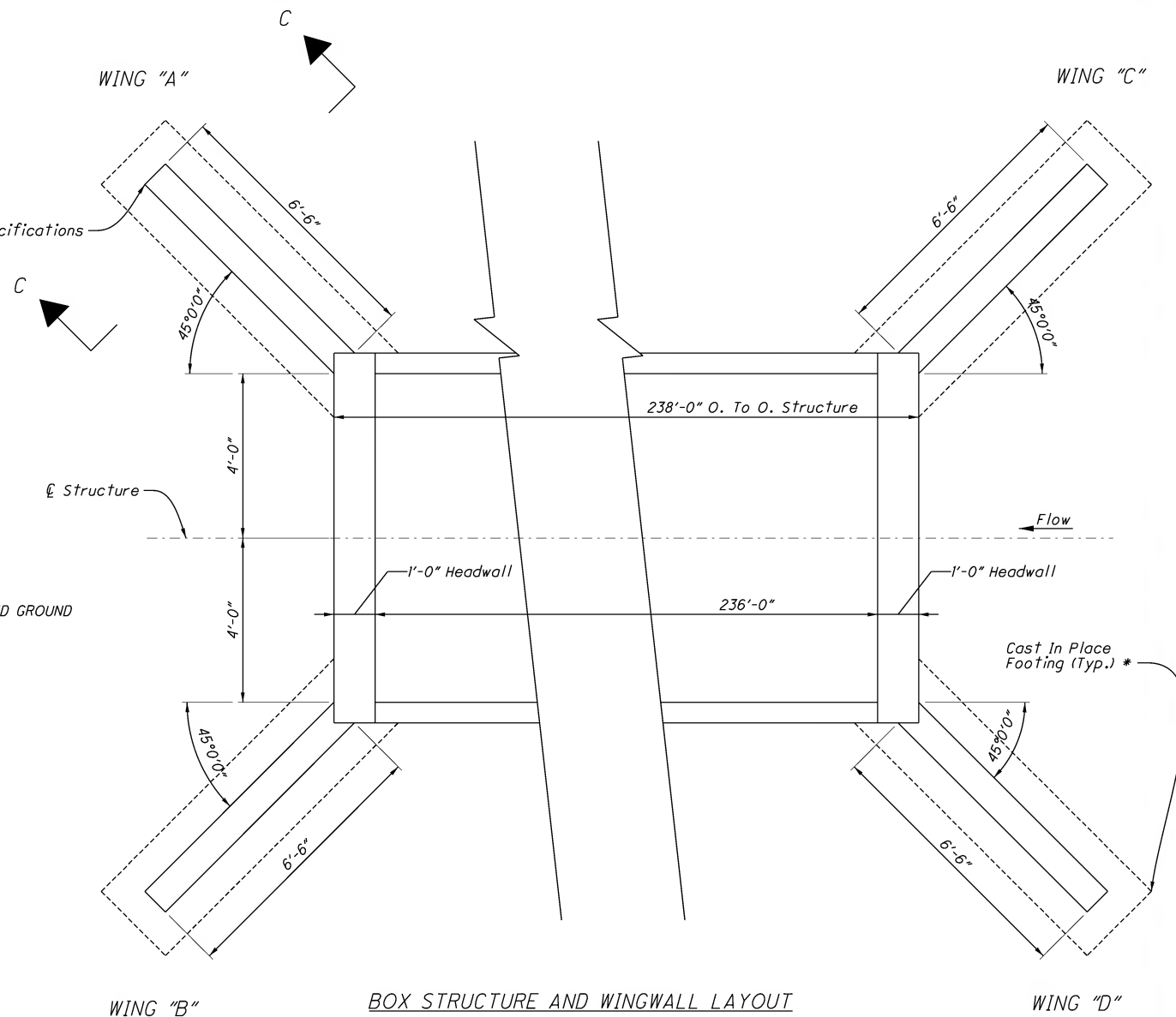
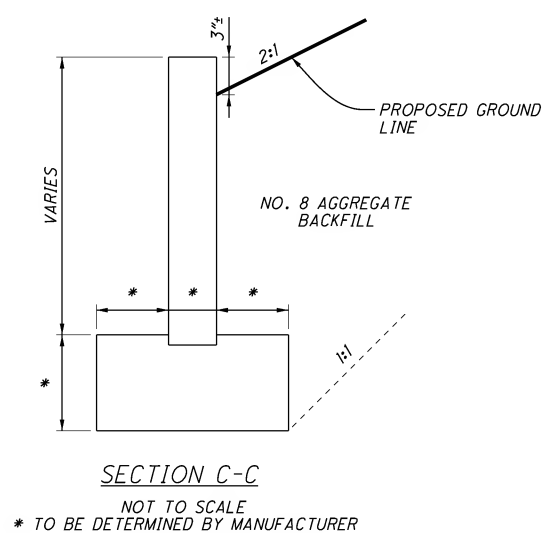
INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN Str. No. 938

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-03
CONTRACT IR-33742	SHEETS 137 of 173
	PROJECT 1006075



Wingwall	H1	H2	L1	A (sft)	B (sft)	Total Area (sft)
Wing A	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing B	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing C	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing D	5.67'	3.08'	6.50'	8.42	20.02	28.44
						113.76

WALL AREAS  
Not To Scale

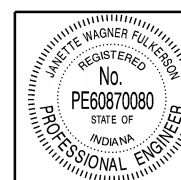


\* Footings To Be Designed By  
Manufacturer Based Upon Factored  
Bearing Resistance

SWALE TO UNNAMED TRIBUTARY OF CLEAR CREEK UNDER I-69  
PRECAST REINFORCED  
CONCRETE STRUCTURE  
1 SPAN @ 8'-0"  
18°05'30" SKEW L.T.  
4'-0" RISE

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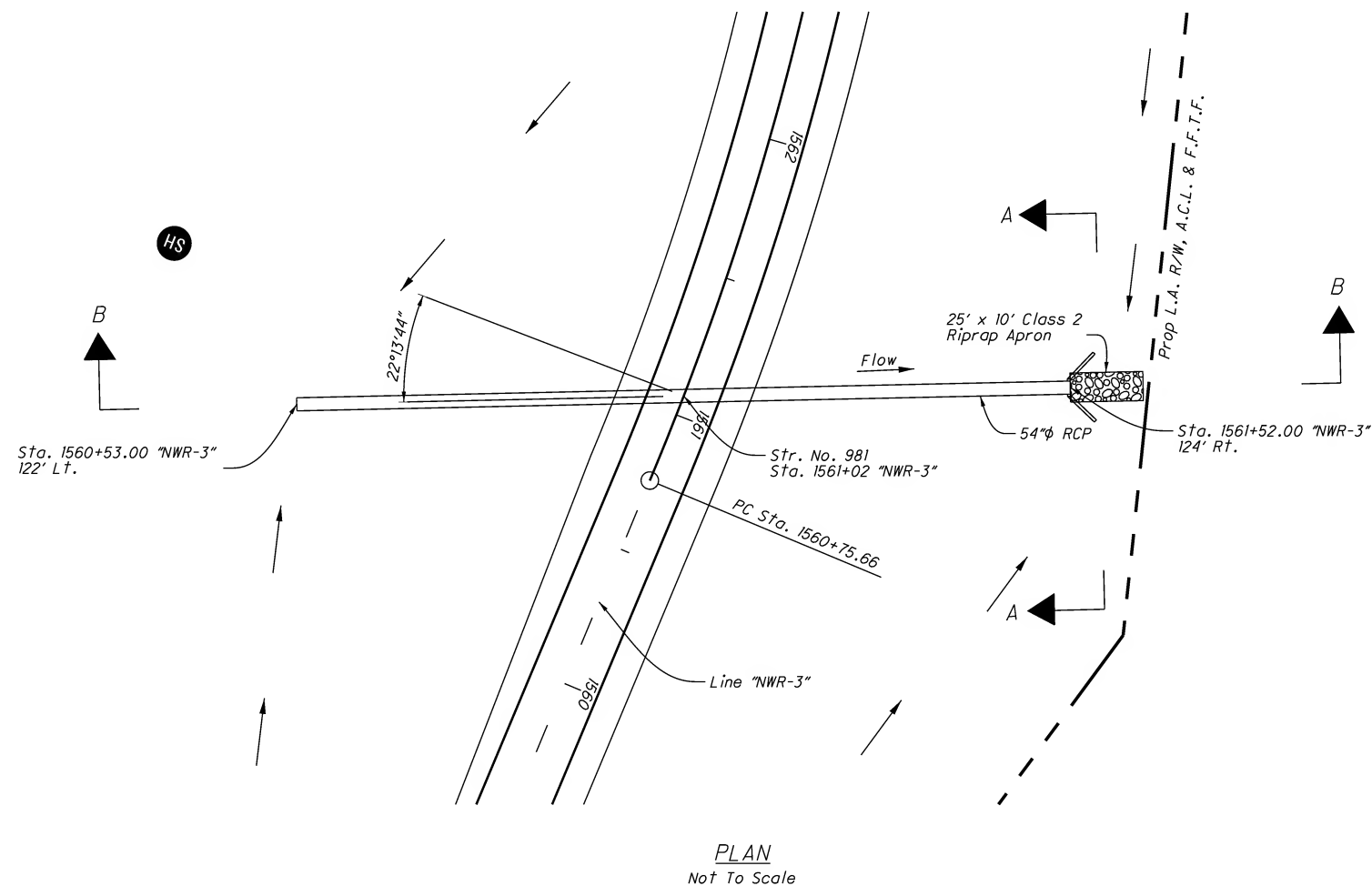
09/25/12 - Miscellaneous revisions



RECOMMENDED FOR APPROVAL	<i>Janette Wagner Pulkerson</i> DESIGN ENGINEER	DATE 9/11/2012
DESIGNED: JWF	DRAWN: SMS	
CHECKED: MDO	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
CULVERT DETAIL Str. No. 938

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-04
CONTRACT IR-33742	SHEETS 138 of 173
	PROJECT 1006075

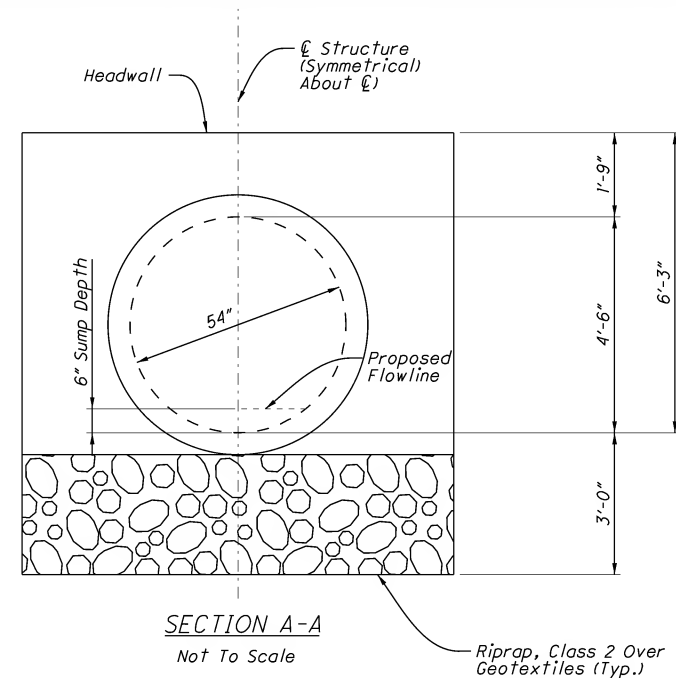


#### HYDRAULIC DATA

Drainage Area	0.02 Sq. Miles
Design Discharge (Q100)	51.74 CFS
Hydraulic Area Required (Below Q100)	12.74 SFT (Inlet Control)
Hydraulic Area Provided (Below Q100)	12.74 SFT (Inlet Control)
Low Structure Elevation	734.50 Upstream
Q100 Highwater Elevation	729.50 Downstream
Serviceability Freeboard	733.36 Ft.
Outlet Velocity @ Q100	28.77 Ft.
Backwater	8.80 FPS
Skew	0.92 Ft.
	22°13'44"

#### NOTES:

- \* - Indicates Dimensions to be Determined By the Precast Unit Manufacturer.
  - \* - See Roadway Cross Sections For Slopes
- Factored Bearing Resistance = 3,000 psf



#### DESIGN DATA

Designed For HL93 Loading in Accordance With AASHTO LRFD Bridge Design Specifications, Fifth Edition, and All Subsequent Interims. Dead Loads Increased 35 psf For Future Wearing Surface.

#### DESIGN STRENGTHS

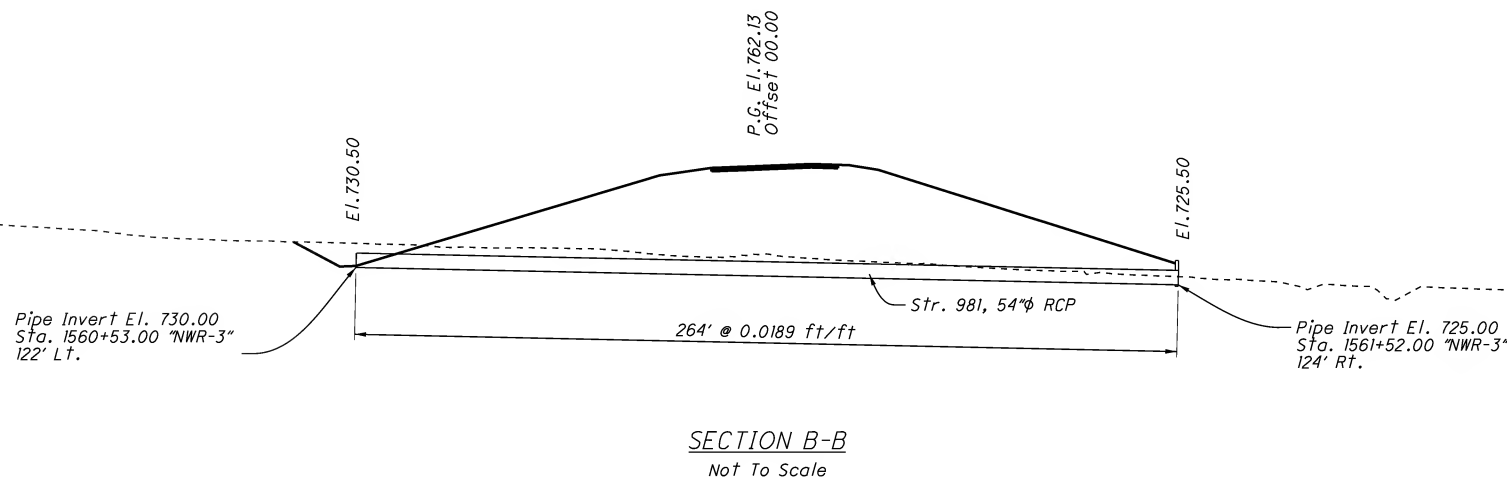
The Minimum Design Concrete Compressive Strength For Structure Sections Shall Be 5,000 psi. For Headwalls, Wingwalls, and Spandrel Walls It Shall Be 4,000 psi.

#### WINGWALL SOIL PARAMETERS

Angle of Friction Between Wingwall Footing and Foundation Soil ( $\phi$ )	= 17°
Angle of Internal Friction of the Foundation Soil ( $\phi$ )	= 32°
Ultimate Cohesion of Foundation (C)	= 1,250 psf
Ultimate Adhesion Between Foundation Soil and Concrete (C)	= 600 psf

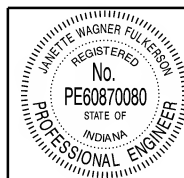
#### GENERAL NOTES

- 1.) Provide Headwall for structure at downstream end.
- 2.) Structure shall be sumped 6".
- 3.) Backfill with No. 8 aggregate.



UNNAMED TRIBUTARY OF CLEAR CREEK UNDER RAMP NWR-3  
REINFORCED CONCRETE PIPE, 54 INCH  
22°13'44" SKEW LT.

SH Sink Hole	SPR Spring
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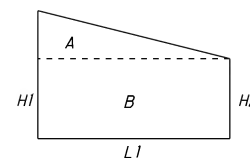
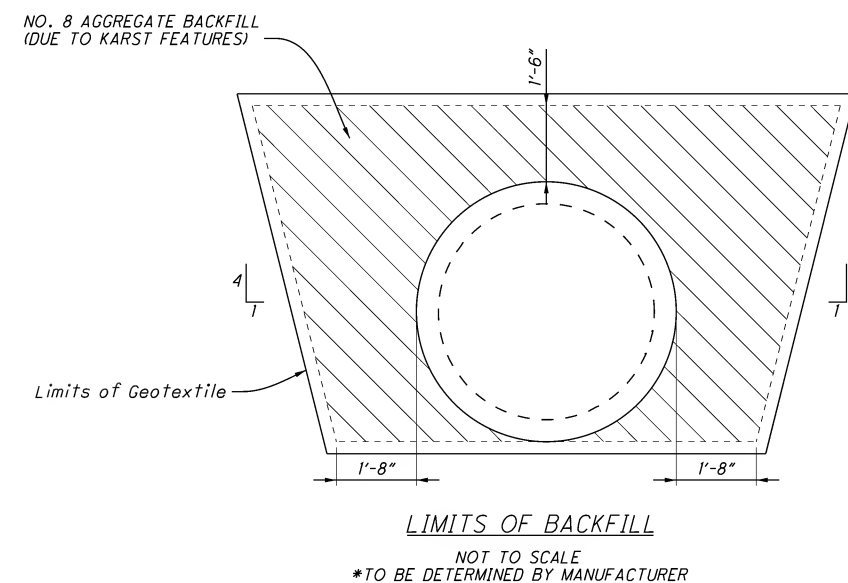
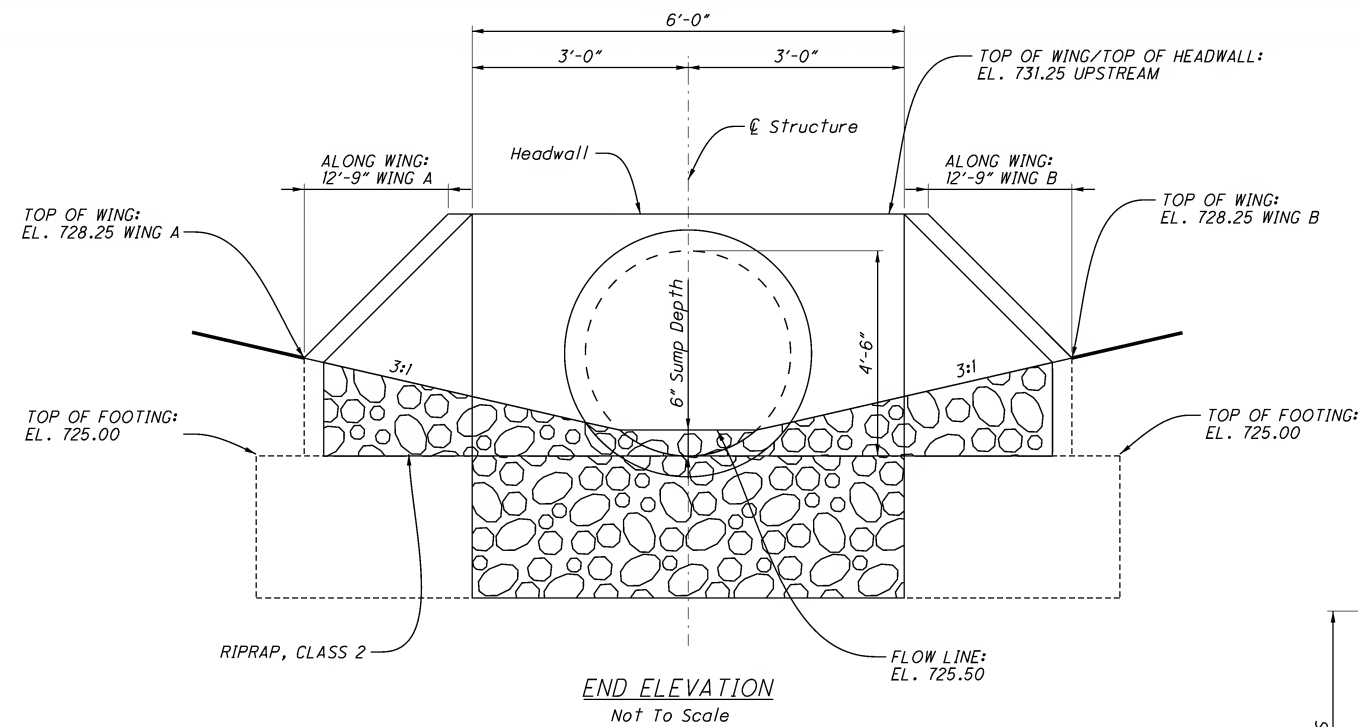


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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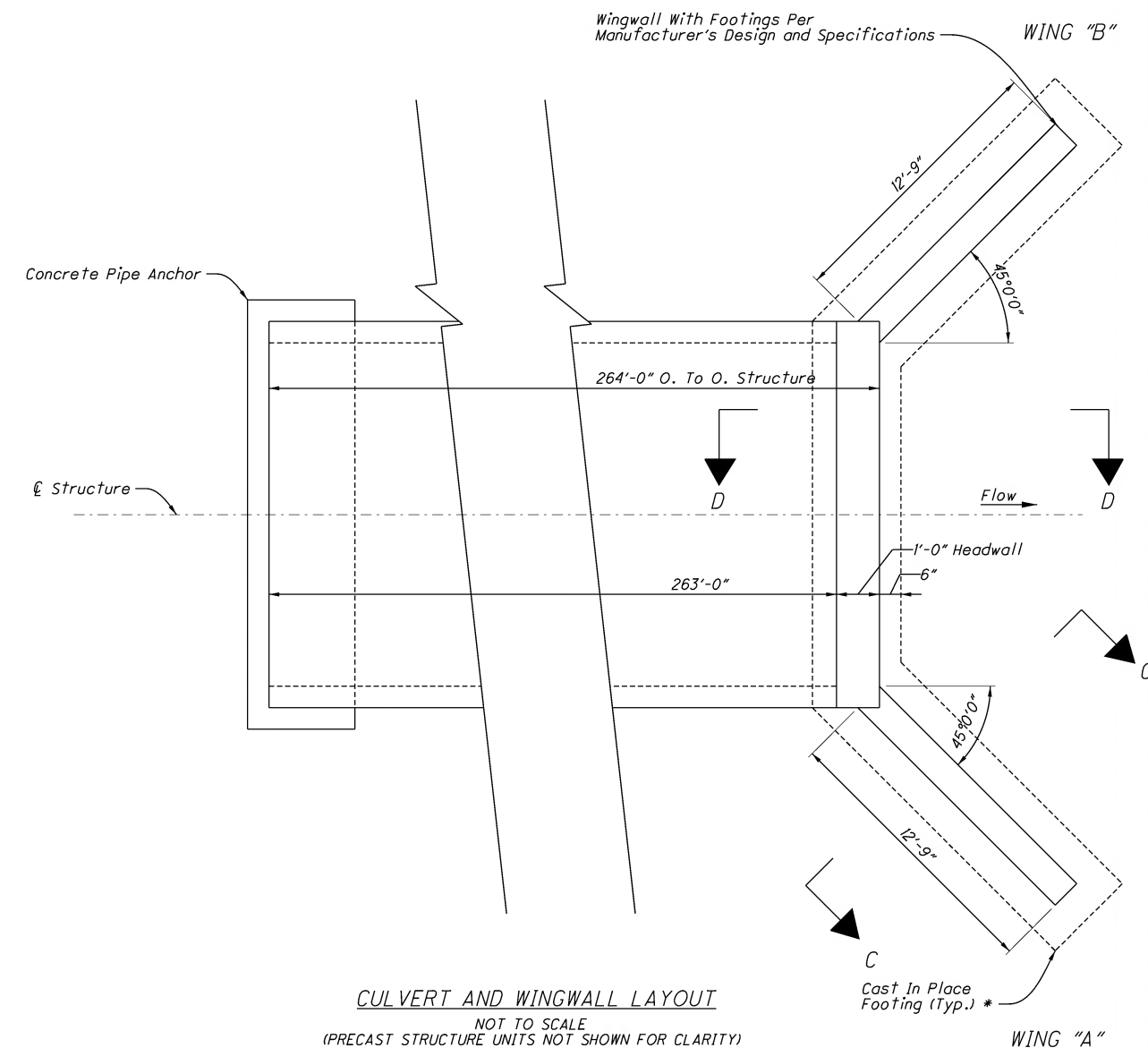
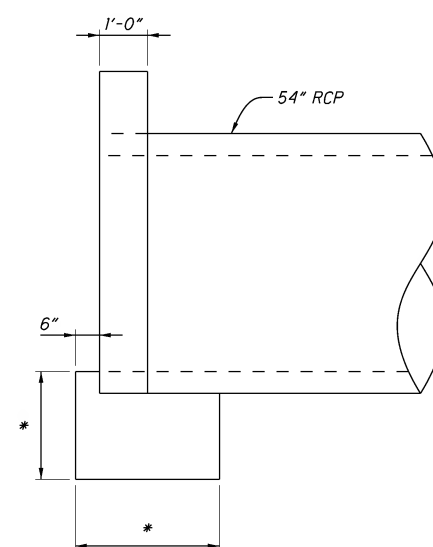
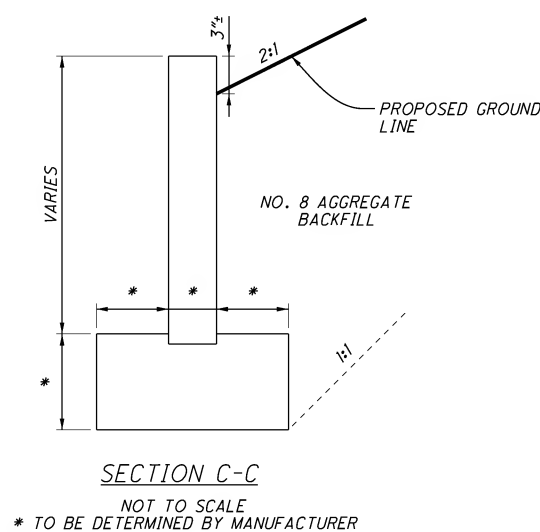
INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN Str. No. 981

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	GP-05
CONTRACT	PROJECT
IR-33742	1006075



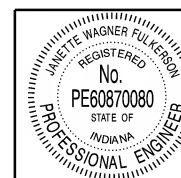


Wingwall	H1	H2	L1	A (sft)	B (sft)	Total Area (sft)
Wing A	6.25'	3.25'	12.75'	19.13	41.44	60.56
Wing B	6.25'	3.25'	12.75'	19.13	41.44	60.56
						121.12



UNNAMED TRIBUTARY OF CLEAR CREEK UNDER RAMP NWR-3  
REINFORCED CONCRETE PIPE, 54 INCH  
22°13'44" SKEW LT.

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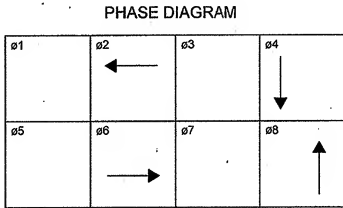


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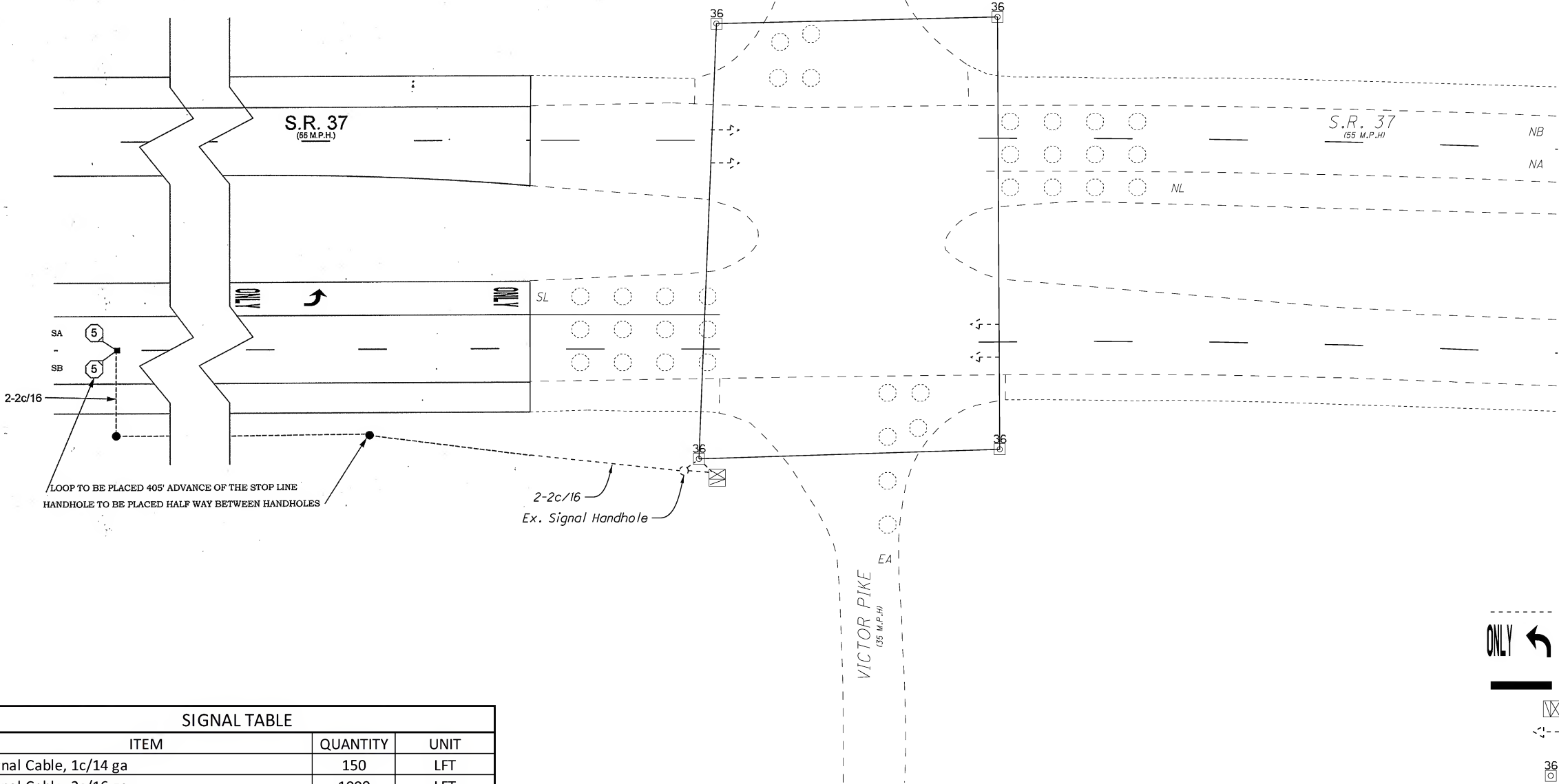
INDIANA DEPARTMENT OF TRANSPORTATION
CULVERT DETAIL Str. No. 981

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VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-06
CONTRACT IR-33742	SHEETS 139-2 of 173
	PROJECT 1006075

LOOP TAGGING TABLE	
LANE	TAG - NUMBER
SA	SA6 1,2,3,4
SA	SA6 5
SB	SB6 1,2,3,4
SB	SB6 5
SL	SL6 1,2,3,4
WA	WA4 1,2,3,4,5,6
NA	NA2 5
NA	NA2 1,2,3,4
NB	NB2 5
NB	NB2 1,2,3,4
NL	NL2 1,2,3,4
EA	EA8 1,2,3,4,5,6



S.R. 37 IS PREFERENTIAL  
S.R. 37 FLASHES AMBER  
VICTOR PIKE FLASHES RED



SIGNAL TABLE		
ITEM	QUANTITY	UNIT
Signal Cable, 1c/14 ga	150	LFT
Signal Cable, 2c/16 ga	1000	LFT
Signal Detector Housing	1	EACH
Sawcut for Roadway Loop and Sealant	42	LFT
Conduit, Steel, Galvanized, 2 in	450	LFT
Handhole	2	EACH

LEGEND

- 2" GALVANIZED STEEL CONDUIT
- PAVEMENT MESSAGE MARKINGS
- 24" STOP LINE
- EX. CONTROLLER AND "P-1" CABINET ON "P-1" FOUNDATION
- EX. TRAFFIC SIGNAL HEAD, 3 FACE, 12" : RED, AMBER, GREEN
- EX. 36' STEEL STRAIN POLE & FOUNDATION
- SIGNAL DETECTOR HOUSING
- SIGNAL HANDHOLE
- EX. SIGNAL HANDHOLE
- EX. OCTAGONAL LOOP, 4 TURN SERIES
- OCTAGONAL LOOP, 4 TURN SERIES

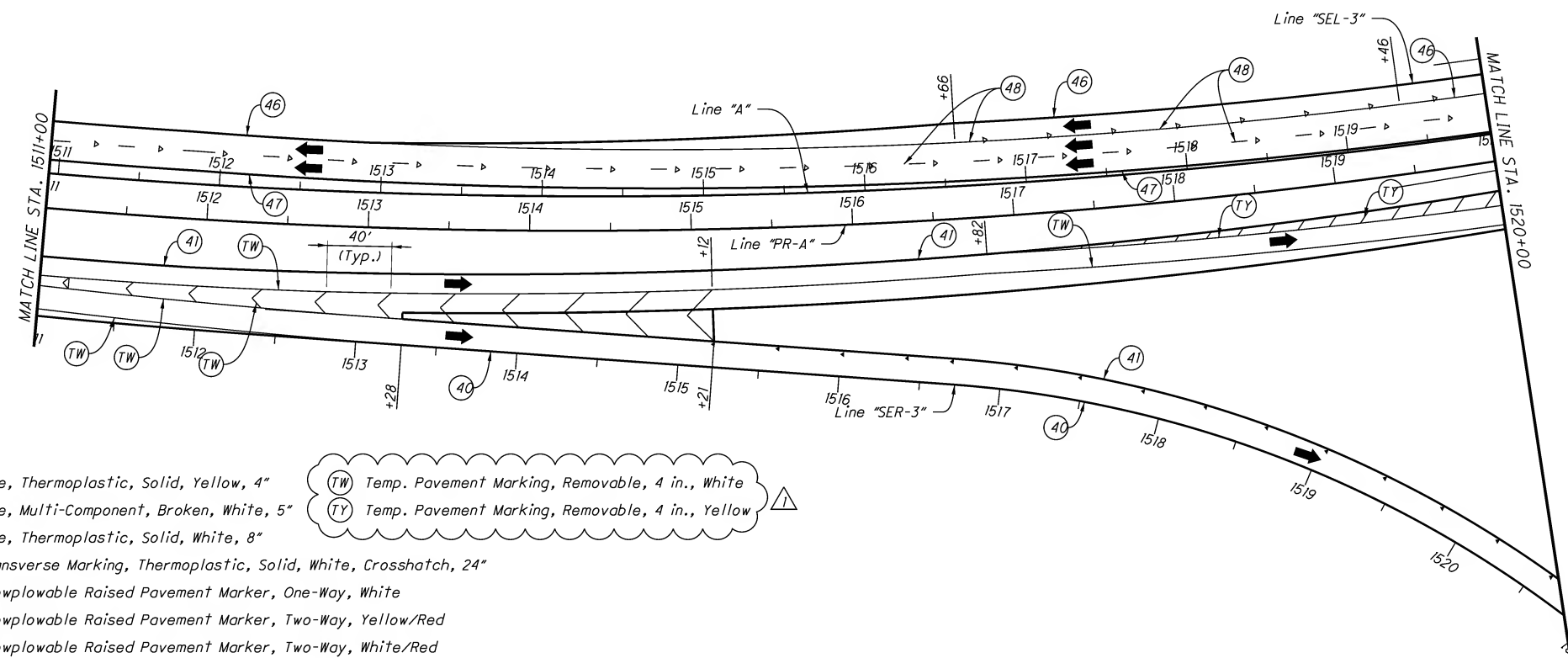
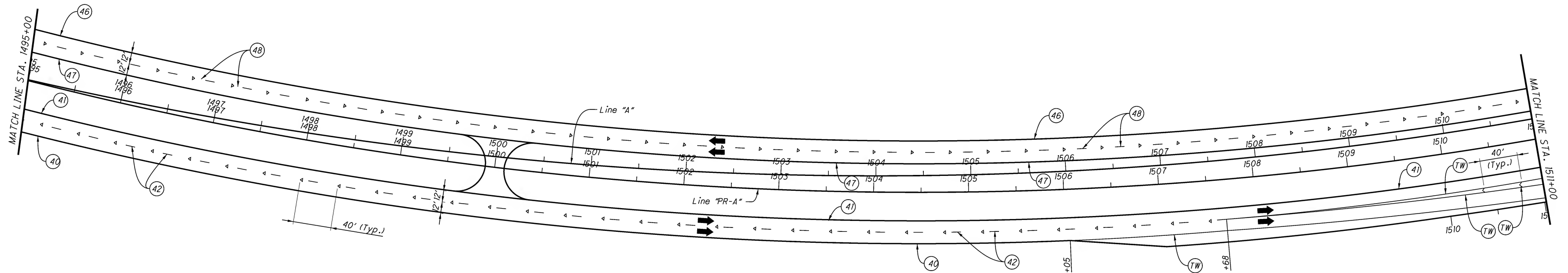
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LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\20062700BRL\_S001\_S09.dgn



RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER DATE: 9/6/10	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGNAL MODIFICATION DETAIL S.R. 37 AND VICTOR PIKE	

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	SG-01
CONTRACT	139-3 of 173
IR-33742	PROJECT
	1006075



**LEGEND**

- |   |   |   |
|---|---|---|
| (40) Line, Multi-Component, Solid, White, 4"                            | (47) Line, Thermoplastic, Solid, Yellow, 4"                           | (TW) Temp. Pavement Marking, Removable, 4 in., White  |
| (41) Line, Multi-Component, Solid, Yellow, 4"                           | (48) Line, Multi-Component, Broken, White, 5"                         | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (42) Line, Multi-Component, Broken, White, 5"                           | (50) Line, Thermoplastic, Solid, White, 8"                            |   |
| (46) Line, Thermoplastic, Solid, White, 4"                              | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" |   |
| (44) Line, Multi-Component, Solid, White, 8"                            | ◄ Snowplowable Raised Pavement Marker, One-Way, White                 |   |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ◄ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red            |   |
|   | ◄ Snowplowable Raised Pavement Marker, Two-Way, White/Red             |   |

**NOTE:**  
For Line "A" & "PR-A", Marking Material Types Depend on the Selected Paving Alternative. For PCCP Pavement (Depicted on NB Lanes), all Markings Shall be Multi-Component. For HMA Pavement (Depicted on SB Lanes), all Marking Shall be Thermoplastic.

Snowplowable Raised Pavement Markings Shall be Placed on I-69 Centerlines, Core Lines and Ramp Curves as detailed in INDOT Standard Drawings and Indiana MUTCD.



RECOMMENDED  
FOR APPROVAL *[Signature]* 9/6/2021  
DESIGN ENGINEER DATE

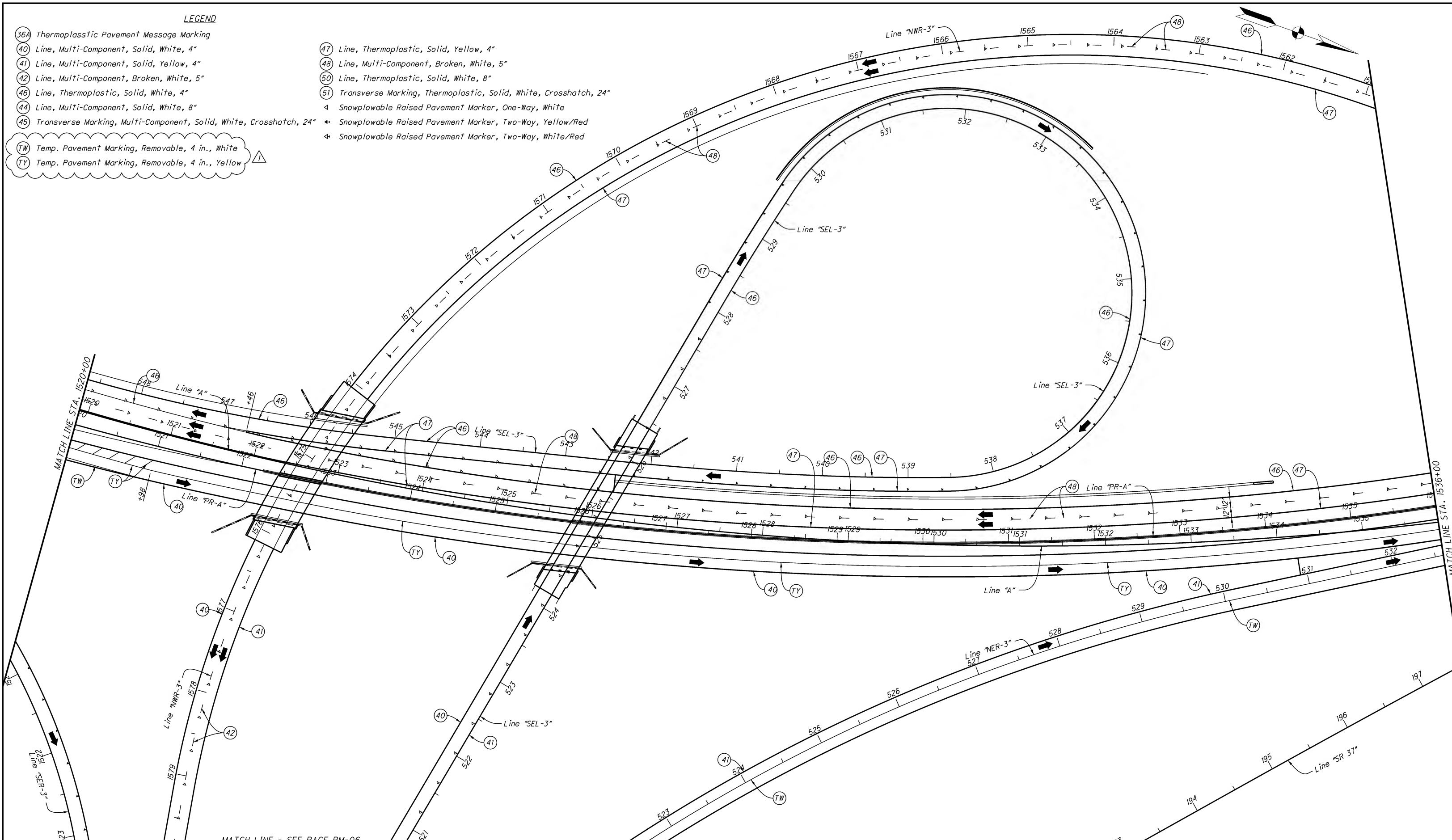
DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**  
STA. 1495+00 TO STA. 1520+00 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-02
CONTRACT IR-33742	SHEETS 141 of 173
	PROJECT 1006075



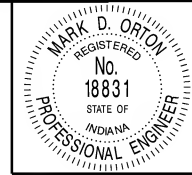


- LEGEND**
- 36A Thermoplastic Pavement Message Marking
  - 40 Line, Multi-Component, Solid, White, 4"
  - 41 Line, Multi-Component, Solid, Yellow, 4"
  - 42 Line, Multi-Component, Broken, White, 5"
  - 46 Line, Thermoplastic, Solid, White, 4"
  - 44 Line, Multi-Component, Solid, White, 8"
  - 45 Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24"
  - TW Temp. Pavement Marking, Removable, 4 in., White
  - TY Temp. Pavement Marking, Removable, 4 in., Yellow

- 47 Line, Thermoplastic, Solid, Yellow, 4"
- 48 Line, Multi-Component, Broken, White, 5"
- 50 Line, Thermoplastic, Solid, White, 8"
- 51 Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24"
- ◄ Snowplowable Raised Pavement Marker, One-Way, White
- ↔ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red
- ◄↔ Snowplowable Raised Pavement Marker, Two-Way, White/Red

**NOTE:**  
For Line "A" & "PR-A", Marking Material Types Depend on the Selected Paving Alternative. For PCCP Pavement (Depicted on NB Lanes), all Markings Shall be Multi-Component. For HMA Pavement (Depicted on SB Lanes), all Marking Shall be Thermoplastic.

Snowplowable Raised Pavement Markings Shall be Placed on I-69 Centerlines, Core Lines and Ramp Curves as detailed in INDOT Standard Drawings and Indiana MUTCD.

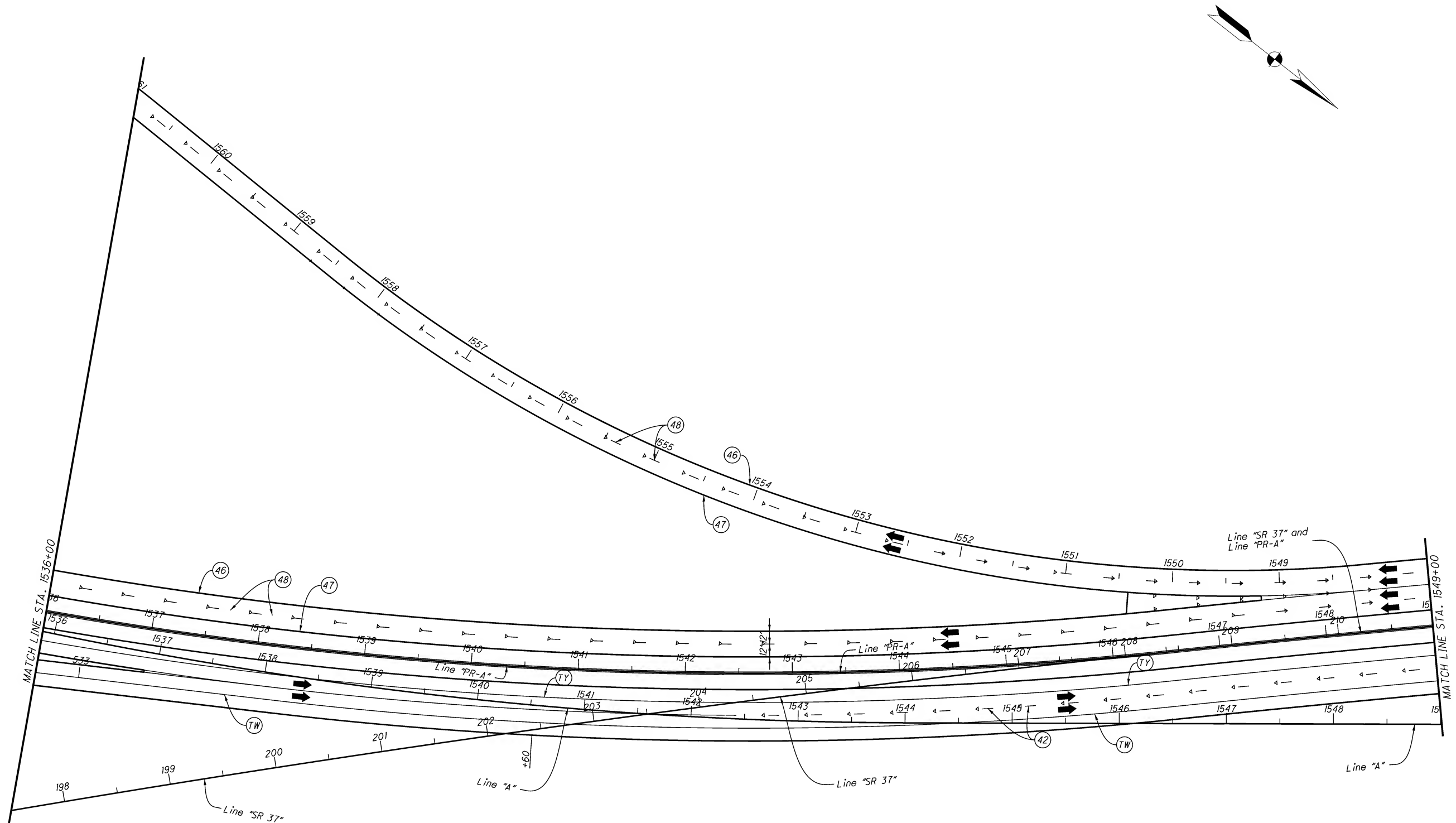


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING DETAILS	
STA. 1520+00 TO STA. 1536+00 "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-03
CONTRACT IR-33742	SHEETS 142 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:43:44 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\10062700RD\_PMD\_A2.dgn



LEGEND

- |   |   |   |
|---|---|---|
| (36A) Thermoplastic Pavement Message Marking                            | (47) Line, Thermoplastic, Solid, Yellow, 4"                           | (TW) Temp. Pavement Marking, Removable, 4 in., White  |
| (40) Line, Multi-Component, Solid, White, 4"                            | (48) Line, Multi-Component, Broken, White, 5"                         | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (41) Line, Multi-Component, Solid, Yellow, 4"                           | (50) Line, Thermoplastic, Solid, White, 8"                            |   |
| (42) Line, Multi-Component, Broken, White, 5"                           | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" |   |
| (46) Line, Thermoplastic, Solid, White, 4"                              | ◄ Snowplowable Raised Pavement Marker, One-Way, White                 |   |
| (44) Line, Multi-Component, Solid, White, 8"                            | ◄◄ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red           |   |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ◄◄ Snowplowable Raised Pavement Marker, Two-Way, White/Red            |   |

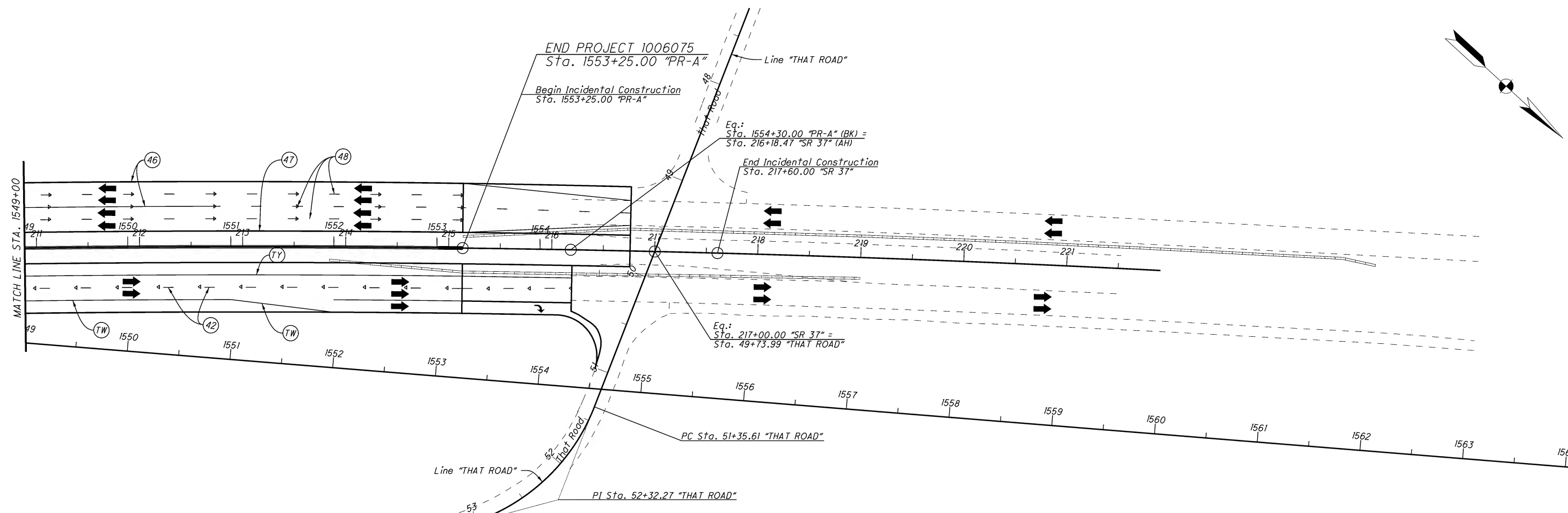


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER: <i>M. D. Orton</i> DATE: 9/6/10	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING DETAILS	
STA. 1536+00 TO STA. 1549+00 "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-04
CONTRACT IR-33742	SHEETS 143 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:43:45 AM  
LOCATION: R:\03141 - I-59 Section 4\Microstation\Sheet Files\PM05\2500RD1\_PMD\_02.dgn



LEGEND

- |   |   |   |
|---|---|---|
| (36A) Thermoplastic Pavement Message Marking                            | (47) Line, Thermoplastic, Solid, Yellow, 4"                           | (TW) Temp. Pavement Marking, Removable, 4 in., White  |
| (40) Line, Multi-Component, Solid, White, 4"                            | (48) Line, Multi-Component, Broken, White, 5"                         | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (41) Line, Multi-Component, Solid, Yellow, 4"                           | (50) Line, Thermoplastic, Solid, White, 8"                            |   |
| (42) Line, Multi-Component, Broken, White, 5"                           | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" |   |
| (46) Line, Thermoplastic, Solid, White, 4"                              | ◄ Snowplowable Raised Pavement Marker, One-Way, White                 |   |
| (44) Line, Multi-Component, Solid, White, 8"                            | ◄ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red            |   |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ◄ Snowplowable Raised Pavement Marker, Two-Way, White/Red             |   |



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

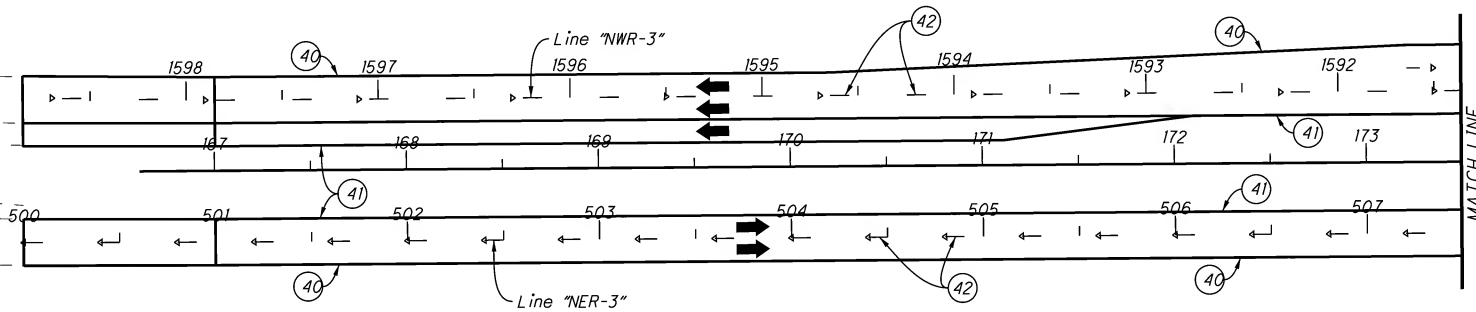
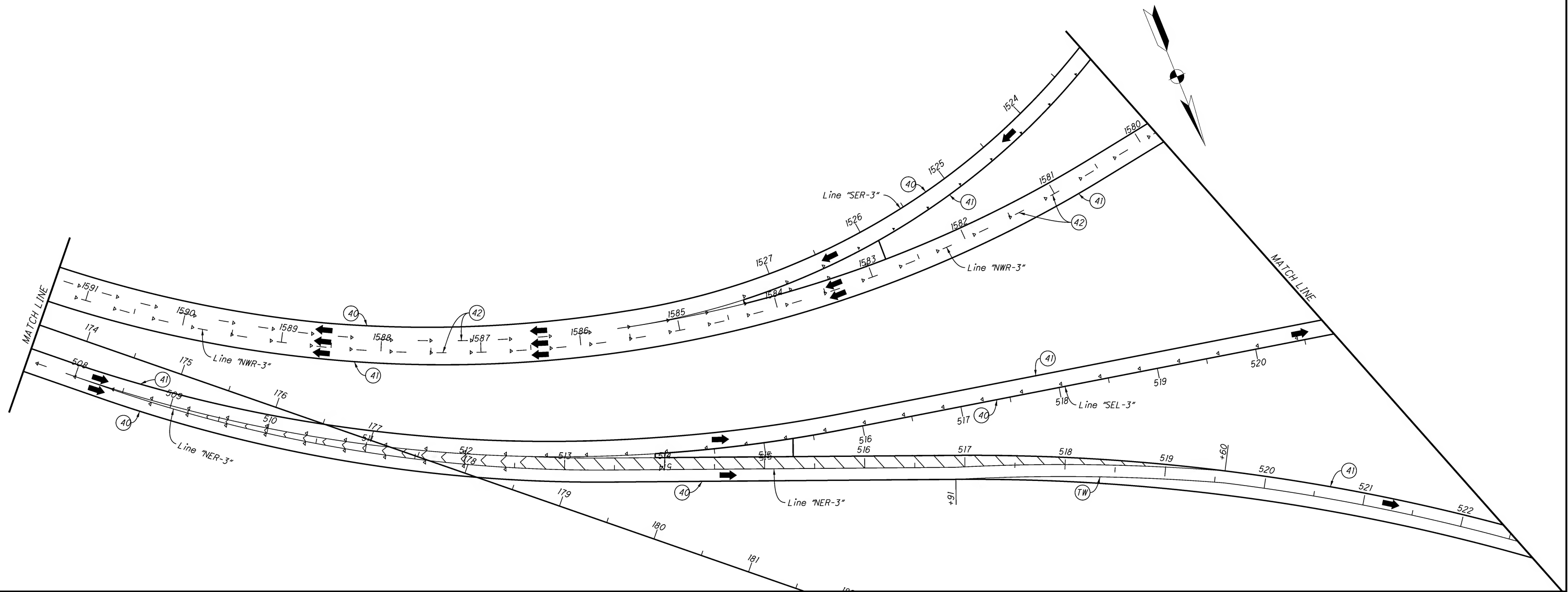
INDIANA  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS  
STA. 1549+00 "PR-A" TO STA. 219+00 "SR 37"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-05
CONTRACT IR-33742	SHEETS 144 of 173
	PROJECT 1006075



DATE: 10/17/2012  
TIME: 10:43:46 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500RD\_PMO6\_A2.dgn



- LEGEND**
- 36A Thermoplastic Pavement Message Marking
  - 40 Line, Multi-Component, Solid, White, 4"
  - 41 Line, Multi-Component, Solid, Yellow, 4"
  - 42 Line, Multi-Component, Broken, White, 5"
  - 46 Line, Thermoplastic, Solid, White, 4"
  - 44 Line, Multi-Component, Solid, White, 8"
  - 45 Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24"
  - TW Temp. Pavement Marking, Removable, 4 in., White
  - TY Temp. Pavement Marking, Removable, 4 in., Yellow
  - 47 Line, Thermoplastic, Solid, Yellow, 4"
  - 48 Line, Multi-Component, Broken, White, 5"
  - 50 Line, Thermoplastic, Solid, White, 8"
  - 51 Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24"
  - 4 Snowplowable Raised Pavement Marker, One-Way, White
  - 4 Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red
  - 4 Snowplowable Raised Pavement Marker, Two-Way, White/Red



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

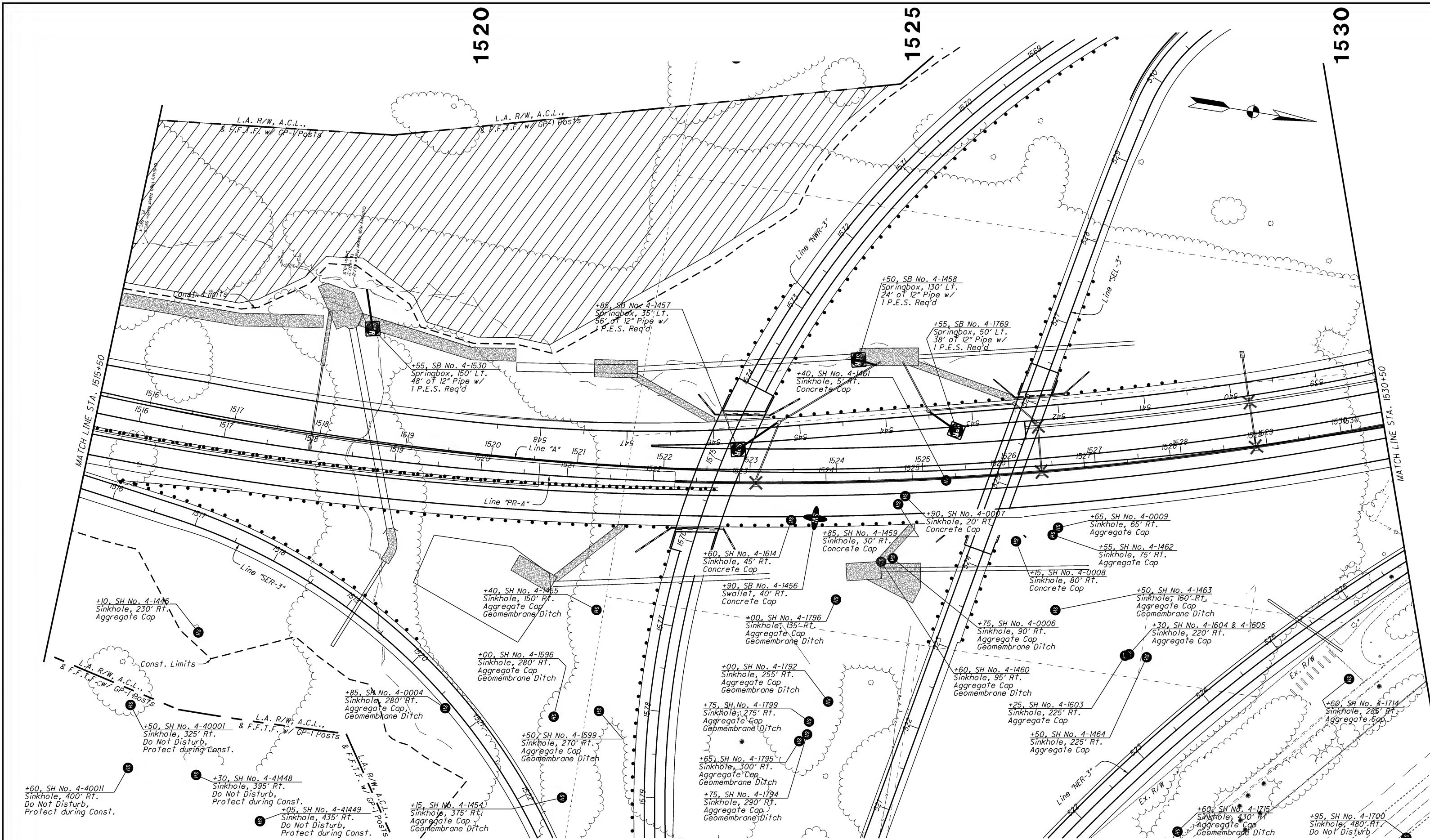
PAVEMENT MARKING DETAILS  
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-06
CONTRACT IR-33742	SHEETS 145 of 173
	PROJECT 1006075

1520

1525

1530



**LEGEND**

SH Sinkhole

SPR Spring

SW Swallet

For Sinkhole Treatment Details See Sheet 100  
For Spring Box Details See Sheet 103

Note:  
All R/W on this sheet to be as shown.  
All R/W on this sheet described from  
Line "A" except as noted.  
Line "PR-A" to be constructed.

MARK D. ORTON  
REGISTERED  
No. 18831  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *[Signature]* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO


INDIANA  
DEPARTMENT OF TRANSPORTATION

KARST DETAIL SHEET  
STA. 1515+50 TO STA. 1530+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE KP-01
CONTRACT IR-33742	SHEETS 149 of 173
	PROJECT 1006075





RECOMMENDED FOR APPROVAL	 _____ DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: _____ JB _____	DRAWN: _____ ETD _____	
CHECKED: _____ RT _____	CHECKED: _____ WJW _____	

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
	1006075
SURVEY BOOK	PAGE SHEETS
ELECTRONIC / AERIAL	149-1 of 173
CONTRACT	PROJECT
IR-33742	1006075



DATE: 10/1/2012  
TIME: 10:43:49 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\200RD\_KT01\_S9.dgn

Segment 9 Karst Features									
Feature No.	Station	Offset	Type	Location	-Cut / +Fill	Existing Ground Elevation	Design Treatment	Infiltration	Proposed Ground Elevation
4-0427	1462+30	Lt. 1.290'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0164	1464+10	Rt. 280'	spring	Outside CN limits	0	611	No treatment. Protect during construction		611
4-0429	1464+25	Lt. 235'	spring	Outside CN limits	0	654	No treatment. Protect during construction		654
4-0430	1464+30	Rt. 10'	swallet	Median	37	641	Concrete cap. * Must be completed prior to earth disturbance from IR-33741		
4-0428	1464+45	Lt. 220'	spring	Outside CN limits	0	649	No treatment. Protect during construction		649
4-1520	1465+30	Rt. 45'	spring	Pavement	52	679	Springbox, pipe.		
4-0431	1466+45	Lt. 330'	spring	Outside ROW	0	615	No treatment. Protect during construction		615
4-0099	1476+30	Rt. 130'	sinkhole	Ditch	12	632	Aggregate cap. Geomembrane ditch.	low	
4-0100	1476+60	Rt. 25'	sinkhole	Pavement	12	640	Concrete cap.	low	
4-0097	1481+75	Lt. 170'	sinkhole	Outside CN limits	21	646	Aggregate cap. Geomembrane ditch.	medium	
4-0089	1483+15	Lt. 330'	cave	Outside ROW			No treatment. Protect during construction		
4-0098	1483+40	Lt. 45'	sinking stream	Pavement	22	639	Aggregate cap. Geomembrane ditch. Extended granular backfill & construction sequence.	high	
4-0088	1484+45	Lt. 390'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0090	1493+50	Lt. 255'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0084	1495+80	Lt. 80'	sinkhole	Pavement	13	683	Concrete cap.	low	
4-0086	1496+50	Rt. 380'	sinkhole	Along Bolin			No treatment. Protect during construction		
4-0092	1497+50	Lt. 150'	sinkhole	Ditch	10	681	Aggregate cap. Geomembrane ditch.	low	
4-0085	1498+50	Lt. 145'	spring	Ditch	15	691	Springbox, pipe.		
4-0094	1509+30	Rt. 145'	sinkhole	Ditch	0	704	Aggregate cap. Geomembrane ditch.	high	704
4-1608	1509+35	Rt. 155'	sinkhole	Ditch	0	704	Aggregate cap. Geomembrane ditch.	low	704
4-0003	1510+40	Lt. 105'	spring	Ditch	5	701	Springbox, pipe.		
4-1609	1515+45	Rt. 550'	sinkhole	Outside ROW	0	768	Do Not Disturb. Protect during construction.	medium	768
4-0001	1516+50	Rt. 325'	sinkhole	Outside ROW	0	743	Do Not Disturb. Protect during construction.	medium	743
4-0011	1516+60	Rt. 400'	sinkhole	Outside ROW	0	750	Do Not Disturb. Protect during construction.	low	750
4-1446	1517+10	Rt. 230'	sinkhole	In ROW		732	Aggregate cap.	low	
4-1448	1517+30	Rt. 395'	sinkhole	Outside ROW	0	747	Do Not Disturb. Protect during construction.	high	747
4-1449	1518+05	Rt. 435'	sinkhole	Outside ROW	N/A	N/A	Do Not Disturb. Protect during construction.	medium	N/A
4-1530	1518+55	Lt. 150'	spring	Outside CN limits	0	700	Springbox, pipe.		700
4-1452	1519+25	Rt. 500'	sinkhole	Outside ROW	0	748	Do Not Disturb. Protect during construction.	low	748
4-1600	1519+55	Rt. 840'	sinkhole	Outside ROW	0	764	Do Not Disturb. Protect during construction.	low	764
4-1453	1519+70	Rt. 630'	sinkhole	Outside ROW	0	748	Do Not Disturb. Protect during construction.	high	748
4-0005	1519+80	Rt. 450'	sinkhole	115' of SER Shldr	0	745	Aggregate cap.	medium	745
4-0004	1519+85	Rt. 280'	sinkhole	Ramp Shoulder	7	737	Aggregate cap. Geomembrane ditch	low	738
4-1451	1519+95	Rt. 440'	sinkhole	100' of SER Shldr	0	744	Aggregate cap.	medium	744
4-1601	1520+10	Rt. 620'	sinkhole	On\in ROW Limits	0	755	Aggregate cap.	medium	755
4-1602	1520+25	Rt. 810'	sinkhole	Outside ROW	0	766	Do not disturb. Protect during construction.	medium	766
4-1596	1521+00	Rt. 280'	sinkhole	Infield		738	Aggregate cap. Geomembrane ditch.	medium	
4-1807	1521+05	Rt. 995'	sinkhole	Ditch	-41	784	Aggregate cap. Geomembrane ditch.	low	743
4-1454	1521+15	Rt. 375'	sinkhole	Infield	-11	754	Aggregate Cap. Geomembrane ditch.	medium	743
4-1455	1521+40	Rt. 150'	sinkhole	Embankment	7	733	Aggregate cap. Geomembrane ditch .	high	740
4-1599	1521+50	Rt. 270'	sinkhole	Embankment	8	739	Aggregate cap. Geomembrane ditch.	medium	747
4-1597	1521+95	Rt. 425'	sinkhole	Ramp Shoulder	4	758	Concrete cap.	medium	759
4-1716	1522+10	Rt. 763'	sinkhole	Ramp Pavement	-11	765	Concrete cap.	high	754
4-1494	1522+60	Rt. 1440'	sinkhole	Outside ROW	0	762	Do not disturb. Protect during construction.	low	762
4-1457	1522+85	Lt. 35'	spring	Pavement	11	722	Springbox, pipe.		733
4-1445	1522+90	Lt. 490'	sinkhole	Outside ROW	0	748	Do not disturb. Protect during construction.	medium	748
4-1598	1523+00	Rt. 760'	sinkhole	Loop Embankment	-4	766	Aggregate cap. Geomembrane ditch.	medium	762
4-1613	1523+35	Lt. 775'	sinkhole	Outside ROW	0	730	Do not disturb. Protect during construction.	medium	730
4-1444	1523+45	Lt. 635'	sinkhole	Outside ROW	0	743	Do not disturb. Protect during construction.	medium	743
4-1443	1523+50	Lt. 825'	sinkhole	Outside ROW	0	728	Do not disturb. Protect during construction.	high	728
4-1614	1523+60	Rt. 45'	sinkhole	Shoulder	1	736	Concrete cap.	medium	737
4-1795	1523+65	Rt. 300'	sinkhole	Infield		759	Aggregate cap. Geomembrane ditch.	high	
4-1793	1523+75	Rt. 275'	sinkhole	Infield		757	Aggregate cap. Geomembrane ditch.	high	
4-1794	1523+75	Rt. 290'	sinkhole	Infield		758	Aggregate cap. Geomembrane ditch .	high	
4-1612	1523+80	Lt. 640'	sinkhole	Outside ROW	0	742	Do not disturb. Protect during construction.	low	742
4-1505	1523+85	Rt. 500'	sinkhole	Embankment		749	Aggregate cap. Geomembrane ditch.	high	742

Segment 9 Karst Features									
Feature No.	Station	Offset	Type	Location	-Cut / +Fill	Existing Ground Elevation	Design Treatment	Infiltration	Proposed Ground Elevation
4-1456	1523+90	Rt. 40'	swallet	Shoulder	2	735	Concrete cap.		737
4-1792	1524+00	Rt. 255'	sinkhole	Infield		757	Aggregate cap. Geomembrane ditch.	medium	
4-1796	1524+00	Rt. 135'	sinkhole	Infield		745	Aggregate cap. Geomembrane Ditch.	medium	
4-1495	1524+40	Rt. 1305'	sinkhole	Outside ROW	0	757	Do not disturb. Protect during construction.	low	757
4-1458	1524+50	Lt. 130'	spring	Embankment	? -6	724	Springbox and pipe.		718
4-1460	1524+60	Rt. 95'	sinkhole	Infield	-6	747	Aggregate cap. Geomembrane ditch	medium	741
4-1496	1524+70	Rt. 1255'	sinkhole	Outside ROW	0	764	Do not disturb. Protect during construction.	high	764
4-0006	1524+75	Rt. 90'	sinkhole	Infield	-5	745	Aggregate cap. Geomembrane ditch.	high	740
4-1459	1524+85	Rt. 30'	sinkhole	Pavement	-6	745	Concrete cap.	low	739
4-0007	1524+90	Rt. 20	sinkhole	Pavement	-4	743	Concrete cap.	medium	739
4-1440	1525+15	Lt. 695'	sinkhole	Outside ROW	0	741	Do not disturb. Protect during construction.	medium	741
4-1441	1525+15	Lt. 780'	cave	Outside ROW	0	740	Do not disturb. Protect during construction.		740
4-1442	1525+40	Lt. 880'	sinkhole	Outside ROW	0	733	Do not disturb. Protect during construction.	medium	733
4-1461	1525+40	Rt. 5'	sinkhole	Concrete Median	-5	744	Concrete cap.	low	739
4-1769	1525+55	Lt. 50'	spring	Shoulder	5	733	Springbox and pipe.		738
4-0008	1526+15	Rt. 80'	sinkhole	Embankment	-15	751	Concrete cap.	low	736
4-1463	1526+50	Rt. 160'	sinkhole	Infield		759	Aggregate cap. Geomembrane ditch.	high	
4-1462	1526+55	Rt. 75'	sinkhole	Embankment	-11	749	Aggregate cap.	medium	738
4-0009	1526+65	Rt. 65'	sinkhole	Embankment	-8	749	Aggregate cap.	low	741
4-1603	1527+25	Rt. 225'	sinkhole	Infield		763	Aggregate cap.	low	
4-1604	1527+30	Rt. 220'	sinkhole	Infield		762	Aggregate cap.	low	
4-1605	1527+30	Rt. 220'	sinkhole	Infield		762	Aggregate cap.	medium	
4-1464	1527+50	Rt. 225'	sinkhole	Infield		760	Aggregate cap.	medium	
4-1715	1527+60	Rt. 430	sinkhole	Ramp Backslope	-7	780	Aggregate cap. Geomembrane ditch.	high	773
4-1474	1528+20	Lt. 920'	sinkhole	Outside ROW	0	741	Do not disturb. Protect during construction.	high	741
4-1471	1529+60	Lt. 910'	sinkhole	Outside ROW	0	738	Do not disturb. Protect during construction.	low	738
4-1714	1529+60	Rt. 285'	sinkhole	Backslope. NER	-17	782	Aggregate cap.	high	765
4-1470	1529+95	Lt. 910'	cave	Outside ROW	0	739	Do not disturb. Protect during construction.		739
4-1700	1529+95	Rt. 480'	sinkhole	Ex. SB SR 37 Pav't	0	767	No treatment high fill.	high	767
4-1439	1530+85	Lt. 570'	sinkhole	NWR Pav't	4	750	Concrete cap.	medium	754
4-1438	1532+20	Lt. 550'	sinkhole	NWR Shldr	4	751	Concrete cap.	medium	755
4-1465	1532+90	Rt. 310'	sinkhole	Ramp, pavement ?		763	Concrete cap.	medium	
4-1466	1534+25	Lt. 135'	sinkhole	Infield		755	Aggregate cap.	low	
4-1437	1535+05	Lt. 320'	sinkhole	Infield		743	Aggregate cap.	medium	
4-1805	1537+10	Lt. 135'	sinkhole	Infield		746	Aggregate cap. Geomembrane ditch.		
4-1469	1538+55	Lt. 805'	sinkhole	Outside ROW	0	737	Do not disturb. Protect during construction.	low	737
4-1468	1538+60	Lt. 645'	sinkhole	Outside ROW	0	743	Do not disturb. Protect during construction.	low	743
4-1467	1538+70	Lt. 730'	sinkhole	Outside ROW	0	744	Do not disturb. Protect during construction.	high	744
4-1806	1543+60	Lt. 185'	sinkhole	Embankment	-1	766	Aggregate cap. Geomembrane ditch.	low	765



RECOMMENDED FOR APPROVAL <i>M. D. Orton</i> 9/6/2012 DESIGN ENGINEER DATE	
DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA DEPARTMENT OF TRANSPORTATION
KARST FEATURE TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE KT-01
CONTRACT IR-33742	SHEETS 150 of 173 PROJECT 1006075



DATE: 10/1/2012  
TIME: 10:44:00 AM  
LOCATION: R:\03141 - I-59 Section 4\Microstation\Sheet Files\B62700RD.MDSOL\_A2.dgn

Line	Station	Location			Monument Type					Offset
		Left	Center	Right	A	B	C	D	Section Corner	
"A"										
SECTION LINE	1462+75.21	X					1			259.75'
SECTON LINE	1465+35.95			X			1			365.00'
PC	1471+42.94		X				1			
SECTION LINE	1476+50.00			X			1			395.59'
SECTON LINE	1478+71.54			X			1			290.00'
PI	1478+85.59	X						1		34.40'
PT	1486+23.99		X				1			
PC	1494+13.78		X				1			
"PR-A"										
PC	1495+09.39		X				1			
POC	1504+00.00		X				1			
POC	1514+00.00		X				1			
SECTION LINE	1521+31.53			X			1			320.00'
SECTION LINE	1522+28.88	X					1			436.09'
POC	1524+00.00		X					1		
PI	1525+66.33			X			1			1076.98'
POC	1534+00.00		X					1		
POC	1544+00.00		X					1		
PCC	1546+58.04		X					1		
SECTION LINE	1546+93.76	X					1			170.04'
SECTION LINE	1550+66.29			X			1			175.00'
POC	1553+25.00		X					1		
"BOLIN LANE"										
POT	17+30.00		X			1				
POT	22+00.00		X			1				
"PR-GLENVIEW DRIVE"										
POT	2+00.00		X			1				
PC	3+94.76		X			1				
PI	4+92.15	X					1			
PT	5+80.15		X			1				
POT	6+31.15		X			1				
POT	13+60.88		X			1				
RAMP "SER-3"										
PC	1509+99.31		X					1		
PI	1511+18.54			X				1		1.42'
PT	1512+37.73		X					1		
PC	1516+69.44		X					1		
PI	1523+26.60	X					1			256.66'
PT	1527+31.34		X					1		
RAMP "SEL-3"										
PC	513+90.65		X					1		
PI	514+87.32			X				1		3.11'
PT	515+83.72		X					1		
PC	528+16.76		X					1		
PI	528+91.78	X						1		0.98'
PCC	529+66.76		X					1		
PI	531+42.68	X						1		62.80'
PCC	532+61.63		X					1		
PI	534+37.55	X					1			62.80'
PCC	535+56.50		X					1		
PI	537+32.42	X					1			62.80'
PCC	538+51.37		X					1		
PI	539+26.39	X						1		0.98'
PCC	540+01.37		X					1		
PI	541+20.73	X						1		1.91'
PT	542+40.00		X					1		
PC	545+09.91		X					1		
PI	547+02.37	X						1		9.12'
PT	548+93.68		X					1		

Line	Station	Location			Monument Type					Offset
		Left	Center	Right	A	B	C	D	Section Corner	
RAMP "NWR-3"										
POT	1548+30.51		X					1		
PC	1548+44.80		X					1		
PI	1553+72.24	X					1			100.77'
PT	1558+49.08		X				1			
PC	1560+75.66		X					1		
POC	1570+00.00		X					1		
PT	1579+14.88		X					1		
PC	1580+50.32		X					1		
PI	1586+42.14			X				1		133.02'
PT	1591+55.78		X					1		
RAMP "NER-3"										
POT	500+00.00		X					1		
PI	501+00.00		X					1		
PC	508+30.76		X					1		
PI	510+90.32			X			1			22.29'
PT	513+44.78		X					1		
PC	516+90.47		X					1		
PI	523+75.16	X					1			111.32'
PT	530+12.09		X					1		
POC	533+08.07		X					1		
"SR 37"										
POT	166+61.03		X					1		
SECTION LINE	172+84.18	X					1			227.07'
SECTION LINE	173+58.80			X			1			151.64'
POT	173+71.20		X					1		
SECTION CORNER	175+04.04			X					1	29.03'
SECTION LINE	176+09.97			X			1			150.00'
"PR-SR 37"										
PC	1173+71.20		X					1		
PI	1179+00.12			X			1			87.23'
SECTION LINE	1180+74.43	X					1			224.36'
PT	1183+91.10		X					1		
Total					0	7	28	47	1	

\* Type B Monuments Shall Be Used With The HMA Pavement Alternate

R/W Marker Table			
Location Station	Offset (ft.)		Quantity
	Left	Right	
"A"			
1493+65.00		98	1
"PR-Glenview Drive"			
2+65.00		25	1
2+65.00		42	1
4+32.00		53	1
4+91.00		111	1
5+52.00		88	1
6+04.00		60	1
11+50.00		40	1
13+47.00		107	1
"Bolin Lane"			
22+71.00		58	1
22+66.00		9	1
22+65.00	9		1
22+61.00	45		1
TOTAL			13

RIGHT OF WAY FENCE TABLE - LEFT						
Line	Station	Offset	to	Station	Offset	Length
"A"						
	1460+54.00	240		1464+85.00	294	434
	1464+85.00	294		1464+72.00	67	227
	1464+81.00	349		1468+09.00	67	291
	1468+81.00	349		1473+57.00	245	487
	1473+57.00	245		1480+57.00	245	700
	1480+57.00	245		1484+58.00	300	405
	1484+58.00	300		1485+75.00	300	117
	1485+75.00	300		1485+75.00	227	73
	1486+18.00	194		1487+90.00	200	172
	1487+90.00	200		1487+90.00	230	30
	1487+90.00	230		1489+35.00	230	145
	1489+35.00	230		1490+35.00	280	112
	1490+35.00	280		1491+60.00	264	126
	1491+60.00	264		1492+48.00	95	191
	1492+80.00	250		1493+56.00	112	158
	1492+80.00	250		1495+57.00	215	279
"PR-A"						
	1495+57.00	215		1500+58.00	215	501
	1500+58.00	215		1500+58.00	175	40
	1500+58.00	175		1505+58.00	175	500
	1505+58.00	175		1513+75.00	320	830
	1513+75.00	320		1518+50.00	375	478
	1518+50.00	375		1525+07.00	459	662
	1525+07.00	459		1528+20.00	650	367
	1528+20.00	650		1531+00.00	710	286
	1531+00.00	710		1537+00.00	630	605
	1537+00.00	630		1539+25.00	430	301
	1539+25.00	430		1544+50.00	225	564
	1544+50.00	225		1545+56.00	189	112
	1545+56.00	189		1546+94.00	170	139
"SR 37"						
	172+84.00	227		179+05.00	348	633
	172+84.00	227		173+48.00	153	98
Total						10,063

RIGHT OF WAY FENCE TABLE - RIGHT						
Line	Station	Offset	to	Station	Offset	Length
"A"						
	1461+57.00	175		1461+57.00	365	190
	1461+57.00	365		1463+50.00	365	193
	1463+50.00	365		1464+23.00	67	307
	1467+05.00	365		1467+60.00	67	303
	1467+05.00	365		1472+22.00	140	564
	1472+22.00	140		1474+00.00	140	178
	1474+00.00	140		1475+00.00	160	102
	1475+00.00	160		1476+00.00	170	100
	1476+00.00	170		1477+00.00	150	102
	1477+00.00	150		1478+00.00	170	102
	1478+00.00	170		1480+00.00	155	201
	1480+00.00	155		1481+00.00	160	100
	1481+00.00	160		1481+80.00	143	82
	1482+40.00	290		1482+41.00	190	100
	1482+40.00	290		1483+58.00	290	118
	1483+58.00	290		1484+59.00	290	101
	1484+59.00	290		1485+56.00	180	147
	1485+56.00	180		1489+50.00	141	396
	1489+50.00	141		1489+50.00	86	55
"PR-A"						
	1495+34.00	175		1495+10.00	101	78
	1495+34.00	175		1507+95.00	175	1,261
	1507+95.00	175		1512+00.00	230	409
	1512+00.00	230		1517+00.00	320	508
	1517+00.00	320		1518+81.00	320	181
	1518+81.00	320		1520+00.00	550	259
	1520+00.00	550		1520+59.00	890	345
Total						6,481



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10  
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

R/W FENCE, R/W MARKER  
AND MONUMENT TABLES

HORIZONTAL SCALE  
N/A  
VERTICAL SCALE  
N/A

BRIGE FILE  
N/A  
DESIGNATION  
1006075

SURVEY BOOK  
ELECTRONIC / AERIAL  
CONTRACT  
IR-33742

PAGE  
MDS-01  
PROJECT  
1006075

SHEETS  
151 of 173



PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE																						
LOCATION					PAVED SIDE DITCH							RIPRAP DITCH				SODDING						
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIV. LENGTH EACH)	LUGS (8' EQUIV. LENGTH EACH)	TOTAL EQUIVALENT PAY				REVETMENT RIPRAP	CLASS 1 RIPRAP	CLASS 2 RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
								TYPE														
LFT	EACH	EACH	LFT	LFT	LFT	LFT	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	
Line "A"/"PR-A"																						
1462+50	1554+30	X																2720		2,720		
1462+50	1554+30			X														2720		2,720		
1462+42	1464+45			X									389	346		188				188		
1462+50	1464+64		X														479			479		
1463+22	1465+95	X											522	465		253				253		
1467+68	1470+50		X														631			631		
1467+75	1472+25			X							517			667		250				250		
1468+00	1469+75	X														201				201		
1469+75	1472+25	X										383		398		186				186		
1470+50	1485+50		X														3,354			3,354		
1472+25	1475+30			X												350				350		
1482+00	1484+75			X												316				316		
1484+75	1490+10			X							614			793		298				298		
1485+50	1493+35			X													1,755			1,755		
1487+00	1488+75	X														201				201		
1488+75	1491+50	X									316			408		153				153		
1493+10	1496+00	X									333			430		162				162		
1494+13	1500+50		X														1,424			1,424		
1495+25	1497+00			X							201			260		98				98		
1496+00	1496+50	X														58				58		
1498+50	1502+00	X									402			519		195				195		
1500+00	1501+40			X												161				161		
1500+50	1515+50		X														3,354			3,354		
1501+40	1503+25			X							213			274		103				103		
1503+25	1505+00			X												201				201		
1515+50	1522+25		X														1,510			1,510		
1512+50	1512+97			X												50				50		
1512+97	1513+07			X								14		15		6				6		
1513+07	1515+13			X												216				216		
1515+91	1518+85			X																		

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE																						
LOCATION					PAVED SIDE DITCH				RIPRAP DITCH				SODDING									
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIV. LENGTH EACH)	LUGS (8' EQUIV. LENGTH EACH)	TOTAL EQUIVALENT PAY				REVETMENT RIPRAP	CLASS 1 RIPRAP	CLASS 2 RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
								TYPE														
					LFT	EACH	EACH	LFT	LFT	LFT	LFT	TONS	TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS
Line "SER-3"																						
1515+25	1518+00			X													288					288
1520+16	1520+82			X							69				91							
1520+82	1521+90			X										188	173							
1520+83	1522+72	X												264	282							
1522+72	1524+00	X									77				120							
1524+00	1524+77	X														47						47
1524+77	1525+90	X									68				106							
Line "NWR-3"																						
1558+43	1561+02			X									361		386							
1561+02	1562+91			X							198				261							
1562+91	1565+19			X												239						239
1565+19	1566+01			X									143	132								
1571+91	1574+39			X									325	353								
1586+73	1594+75			X												838						838
1554+38	1556+82	X														255						255
1556+82	1558+01	X									125			164								
1558+01	1562+86	X										656	707									
1571+62	1573+05	X											225	215								
1576+13	1579+50	X										470		502								
1579+50	1583+25	X														392						392
1583+25	1586+26	X									315			415								
1586+26	1588+17	X														200						200
1590+72	1598+85	X														488						488
Line "NER-3"																						
501+75	516+50			X												1,541						1,541
521+25	525+60			X												455						455
516+83</																						

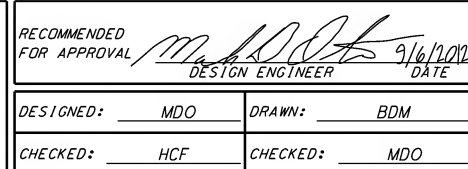
MARK D. ORTON  
REGISTERED  
No.  
18831  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

## PAVED SIDE DITCH & RIPRAP AND SODDING TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE SHEETS
ELECTRONIC / AERIAL	MDS-02 152 of 173
CONTRACT	PROJECT
IR-33742	1006075

[illegible]

 09/25/12 - Miscellaneous revisions



*APPROACH TABLE - PCCP*

HORIZONTAL SCALE	BRIDGE FILE	
N/A	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	AT-01	153 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



[illegible]

DATE: 10/1/2012  
TIME: 10:44:33 AM  
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\25627500RD\_AT02\_S9.dgn



RECOMMENDED  
FOR APPROVAL M. D. O. K. 9/6/20  
DESIGN ENGINEER DATE

DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

# INDIANA DEPARTMENT OF TRANSPORTATION

APPROACH TABLE - HMA

HORIZONTAL SCALE	BRIDGE FILE	
N/A	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	AT-02	154 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

 09/25/12 - Miscellaneous revisions

1  
DATE: 10/1/2012  
TIME: 10:44:41 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\2562700RD\_UD01\_S9.dgn

UNDERDRAIN TABLE																															
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks				
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe LFT	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill CYS	HMA for Underdrains TONS	Outlet Protector No.	Outlet Protector Type	Location								
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right					
	LFT	LFT																					SYS	CYS	TONS	%		Flow Line Elevation @ Underdrain Pipe Limit	(Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation
Line PR-A: Mainline Northbound Median Side																															
1462+50							667.87	N																							
1464+18		168	115.1	15.1		P.G.	663.36	Y			2	67.00	1464+18	662.00	26A	630.53			6.03		26A	1				X					
1467+68							656.35	N																							
1470+00		232	158.9	20.9		P.G.	652.07	Y			2	25.00	1470+00.00	648.93			910	648.43													
1470+00							652.07	N																							
1473+00		300	205.5	27.0		-1.40%	647.88	Y			2	25.00	1473+00.00	646.91			911	646.41													
1473+00							647.88	Y			2	25.00	1473+00.00	646.91			911	646.41													
1476+00		300	205.5	27.0		0.03%	647.98	N																							
1476+00							647.98	Y			2	25.00	1476+00.00	649.23			912	648.73													
1479+00		300	205.5	27.0		P.G.	652.52	N																							
1479+00							652.52	Y			2	62.00	1479+00.00	655.00	27	631.06			5.58		27	1				X					
1482+00		300	205.5	27.0		P.G.	661.25	N																							
1482+00							661.25	Y			2	25.00	1482+00.00	665.65			913	665.15													
1485+00		300	205.5	27.0		P.G.	670.97	N																							
1485+00							670.97	Y			2	62.00	1485+00.00	674.00	28	647.40			5.58		28	1				X					
1488+00		300	205.5	27.0		P.G.	680.01	N																							
1488+00							680.01	Y			2	25.00	1488+00.00	683.79			914	683.29													
1489+50		150	102.8	13.5		P.G.	684.20	N																							
1489+50							684.20	Y			2	60.00	1489+50.00	686.00	29	678.03			5.40		29	1				X					
1493+35		385	263.7	34.7		P.G.	700.60	N																							
1495+00							700.20	Y			2	25.00	1495+00.00	699.92			916	699.42													
1497+00		200	137.0	18.0		P.G.	701.07	N																							
1497+00							701.07	Y			2	67.00	1497+00.00	700.75	30	698.75			6.03		30	1				X					
1500+50		350	239.8	31.5		2.44%	709.62	N																							
1500+50							709.62	Y			2	25.00	1500+50.00	709.45			918	708.95													
1503+00		250	171.3	22.5		0.09%	709.84	N																							
1503+00							709.84	Y			2	67.00	1503+00.00	710.97	31	708.97			6.03		31	1				X					
1506+00		300	205.5	27.0		P.G.	712.62	N																							
1506+00							712.62	Y			2	25.00	1506+00.00	713.39			919	712.89													
1510+00		400	274.0	36.0		0.97%	715.06	N																							
1510+00							715.06	N																							
1512+00		200	137.0	18.0		-0.20%	714.66	Y			2	25.00	1512+00.00	714.50			920	714.00													
1512+00							714.66	Y			2	25.00	1512+00.00	714.50			920	714.00													
1514+00		200	137.0	18.0			716.86	N																							
1514+00							716.86	Y			2	130.00	1514+00.00	716.14	32	714.64			11.70		32	1				X	Outlet to Rt. Ditch Ramp 'SER'				
1518+00		400	274.0	36.0		1.00%	720.86	N																							
1518+00							720.86	Y			2	20.00	1518+00.00	720.63			921	720.13	1.80												
1522+00		400	274.0	36.0		1.31%	726.08	N																							



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN TABLE I-69 - NORTHBOUND	

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-01
CONTRACT IR-33742	SHEETS 155 of 173 PROJECT 1006075

[illegible]

DATE: 10/1/2012  
TIME: 10:44:52 AM  
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\25627500RD\_UD01\_.S9.dgn

**1** 09/25/12 - Miscellaneous revisions



RECOMMENDED  
FOR APPROVAL M. D. O. E. 9/6/70  
DESIGN ENGINEER DATE

DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

# INDIANA DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE  
I-69 - NORTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-02	156 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



1

DATE: 10/1/2012  
TIME: 10:45:01 AM  
LOCATION: R:\005141 - I-69 Section 4\Microstation\Sheet Files\2562700RD UD01\_S9.dgn

UNDERDRAIN TABLE

UNDERDRAIN TABLE																														
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks			
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location							
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right				
	LFT	6"										SYS											CYS	TONS	%	(Y/N)		LFT	CYS	TONS
	Line PR-A: Mainline Northbound Outside Shoulder																													
1462+50							667.60	N																						
1464+18		168	115.1	15.1		P.G.	663.10	Y			2	28	1464+18	662.00	1A	630.53			2.52		1A	1A				X				
1467+68							655.47	N																						
1470+00		232	158.9	20.9		P.G.	649.25	Y			2	28	1470+00.00	648.00	1	624.92			2.52		1	1				X				
1470+00							649.25	N																						
1473+00		300	205.5	27.0		-0.94%	646.44	Y			2	28	1473+00.00	646.00	2	633.92			2.52		2	1				X				
1473+00							646.44	Y			2	28	1473+00.00	646.00	2	633.92			2.52		2	1				X				
1476+00		300	205.5	27.0		0.77%	648.76	N																						
1476+00							648.76	Y			2	28	1476+00.00	648.00	3	627.92			2.52		3	1				X				
1479+00		300	205.5	27.0		P.G.	655.52	N																						
1479+00							655.52	Y			2	30	1479+00.00	655.00	4	631.06			2.70		4	1				X				
1482+00		300	205.5	27.0		P.G.	665.18	N																						
1482+00							665.18	Y			2	30	1482+00.00	664.50	5	639.00			2.70		5	1				X				
1485+00		300	205.5	27.0		P.G.	674.77	N																						
1485+00							674.77	Y			2	30	1485+00.00	673.00	6	647.40			2.70		6	1				X				
1488+00		300	205.5	27.0		P.G.	684.11	N																						
1488+00							684.11	N																						
1488+00							684.11	Y			2	28		683.50	7	666.55			2.52		7	1				X				
1489+50		150	102.8	13.5		P.G.	682.74	Y					1489+50.00	2.00																
1489+50							682.74	Y			2	28	1489+50.00	686.00	8	674.11			2.52		8	1				X				
1493+35		385	263.7	34.7		P.G.	699.22	N																						
1495+00							698.79	Y			2	35	1495+00.00	698.00	9	683.20			3.15		9	1				X				
1497+00		200	137.0	18.0		P.G.	705.27	N																						
1497+00							705.27	Y			2	35	1497+00.00	704.00	10	698.75			3.15		10	1				X				
1500+50		350	239.8	31.5		P.G.	709.11	N																						
1500+50							709.11	Y			2	47	1500+50.00	708.00	11	696.10			4.23		11	1				X				
1503+00		250	171.3	22.5		P.G.	713.03	N																						
1503+00							713.03	Y			2	48	1503+00.00	710.97	12	708.97			4.32		12	1				X				
1506+00		300	205.5	27.0		P.G.	715.28	N																						
1506+00							715.28	Y			2	48	1506+00.00	714.83	13	713.33			4.32		13	1				X				
1508+00		200	137.0	18.0		0.40%	716.08	N																						
1508+00							716.08	Y			2	49	1508+00.00	715.76	14	714.76			4.41		14	1				X				
1512+00		400	274.0	36.0		0.20%	716.88	N																						
1512+00							716.88	Y			2	65	1512+00.00	713.32	15	711.32			5.85		15	1				X				
1514+00		200	137.0	18.0		0.48%	717.83	N																						
1514+00							717.83	Y			2	98	1514+00.00	716.82	16	714.82			8.82		16	1				X				
1518+00		400	274.0	36.0		P.G.	722.54	N																						
1518+00							722.54	Y			2	30	1518+00.00	722.28	17	721.28			2.70		17	1				X				
1522+00		400	274.0	36.0		P.G.	730.86	N																						



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA  
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE  
I-69 - NORTHBOUND

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-03
CONTRACT IR-33742	SHEETS 157 of 173
	PROJECT 1006075

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DATE: 10/1/2012  
TIME: 10:45:11 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\2162700RD\_UD01\_S9.dgn

UNDERDRAIN TABLE

UNDERDRAIN TABLE																															
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks				
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No. _____	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe LFT	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. _____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. _____	Structure Invert Elevation	B Borrow for Structure Backfill CYS	HMA for Underdrains TONS	Outlet Protector No. _____	Outlet Protector Type _____	Location								
	4" LFT	6" LFT																					SYS	CYS	TONS	%		Outside Left	Median Left	Median Right	Outside Right
Line PR-A: Mainline Northbound Outside Shoulder																															
1522+00							730.86	Y			2	38	1522+00.00	727.55	18	725.55				3.42		18	1				X				
1526+00		400	274.0	36.0		P.G.	739.34	N																							
1526+00							739.34	Y			2	30	1526+00.00	736.20	19	734.20				2.70		19	1				X				
1529+00		300	205.5	27.0		P.G.	745.70	N																							
1529+00							745.70	Y			2	30	1529+00.00	742.63	20	740.63				2.70		20	1				X				
1533+00		400	274.0	36.0		P.G.	754.18	N																							
1533+00							754.18	Y			2	70	1533+00.00	751.39	21	749.39				6.30		21	1				X				
1536+00		300	205.5	27.0		P.G.	760.54	N																							
1536+00							760.54	Y			2	70	1536+00.00	759.09	22	757.09				6.30		22	1				X				
1539+00		300	205.5	27.0		P.G.	766.82	N																							
1539+00							766.82	Y			2	57	1539+00.00	763.97	23	761.97				5.13		23	1				X	Sta. 1539+00 in Rock Cut			
1542+00		300	205.5	27.0		P.G.	770.99	N																							
1542+00							770.99	Y			2	57	1542+00.00	762.77	24	760.77				5.13		24	1				X	Sta. 1542+00 in Rock Cut			
1546+00		400	274.0	36.0		P.G.	772.73	N																							
1546+00							772.73	N																							
1550+00		400	274.0	36.0		P.G.	768.00	Y			2	41	1550+00.00	766.00	25	764.00				3.69		25	1				X	Sta. 1546+00 in Rock Cut			
1550+00							768.00	Y			2	22	1550+00.00	768.40	26	766.40				2.00		26	1				X	Sta. 1550+00 in Rock Cut			
1554+30		430	294.6	38.7		P.G.	768.24	N																							
Sub Total	-	8,665.00	5935.5	779.9	-						56	1156								104.06	-		27.00								



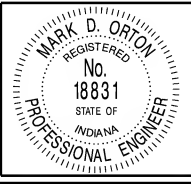
RECOMMENDED FOR APPROVAL	<i>M. D. Orton</i>	9/6/10
DESIGNED: MDO	DRAWN: BDM	DATE
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE I-69 - NORTHBOUND

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-04
CONTRACT IR-33742	SHEETS 158 of 173
	PROJECT 1006075

UNDERDRAIN TABLE																														
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks			
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location							
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right				
	LFT	LFT										SYS																CYS	TONS	%
	Line PR-A: Mainline Southbound Median Side																													
1462+50							667.87	N																						
1464+50		200	137.0	18.0		P.G.	662.50	Y			2	67.00	1464+50	661.00	34A	638.74			6.03		34A	1				X				
1467+68							656.31	N																						
1470+00		232	158.9	20.9		P.G.	652.03	Y			2	25.00	1470+00.00	648.93			910	648.43												
1470+00							652.03	N																						
1473+00		300	205.5	27.0		-1.46%	647.65	Y			2	25.00	1473+00.00	646.91			911	646.41												
1473+00							647.65	Y			2	25.00	1473+00.00	646.91			911	646.41												
1476+00		300	205.5	27.0		0.03%	647.75	N																						
1476+00							647.75	Y			2	25.00	1476+00.00	649.23			912	648.73												
1479+00		300	205.5	27.0		P.G.	652.29	N																						
1479+00							652.29	Y			2	61.00	1479+00.00	655.00	58	644.38			5.49		58	1	X							
1482+00		300	205.5	27.0		P.G.	661.03	N																						
1482+00							661.03	Y			2	25.00	1482+00.00	665.65			913	665.15												
1485+00		300	205.5	27.0		P.G.	670.75	N																						
1485+00							670.75	Y			2	61.00	1485+00.00	674.00	59	637.75			5.49		59	1	X							
1488+00		300	205.5	27.0		P.G.	679.97	N																						
1488+00							679.97	Y			2	25.00	1488+00.00	683.79			914	683.29												
1489+50		150	102.8	13.5		P.G.	684.16	N																						
1489+50							684.16	Y			2	59.00	1489+50.00	687.00	60	645.67			5.31		60	1	X							
1493+35		385	263.7	34.7		P.G.	700.56	N																						
1493+35							700.56	Y																						
1495+00							700.47	Y			2	25.00	1495+00.00	699.92			916	699.42												
1497+00		200	137.0	18.0		P.G.	701.49	N																						
1497+00							701.49	Y			2	80.00	1497+00.00	702.00	61	676.16			7.20		61	1	X							
1500+50		350	239.8	31.5		P.G.	707.12	N																						
1500+50							707.12	Y			2	25.00	1500+50.00	708.65			918	707.95												
1503+00		250	171.3	22.5		P.G.	710.26	N																						
1503+00							710.26	Y			2	80.00	1503+00.00	710.00	62	705.29			7.20		62	1	X							
1506+00		300	205.5	27.0		P.G.	713.04	N																						
1506+00							713.04	Y			2	25.00	1506+00.00	713.39			919	712.89												
1508+00		200	137.0	18.0		0.74%	714.52	N																						
1508+00							714.52	Y			2	90.00	1508+00.00	713.00	63	700.50			8.10		63	1	X							
1512+00		400	274.0	36.0		0.22%	715.41	N																						
1512+00							715.41	N			2	25.00		714.71			920	714.21												
1514+00		200	137.0	18.0		-0.03%	715.34	Y					1514+00.00	2.00																
1514+00							715.34	Y			2	120.00	1514+00.00	714.00	64	690.01			10.80		64	1	X							
1518+00		400	274.0	36.0		P.G.	718.17	N																						
1518+00							718.17	Y			2	20.00	1518+00.00	720.63			921	720.13	1.80											
1522+00		400	274.0	36.0		P.G.	726.50	N																						
1522+00							726.50	Y			2	63.00	1522+00.00	725.96	65	723.96			5.67		65	1	X							
1522+90		90	61.7	8.1		3.89%	730.00	N																						
Sub Total	-	5,557.00	3806.5	500.1	-						40	951.00							63.09	-		9.00								

DATE: 10/1/2012  
TIME: 10:45:19 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\2562750BRI UD01\_S9.dgn



RECOMMENDED FOR APPROVAL	
<i>[Signature]</i> 9/6/10	
DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE I-69 - SOUTHBOUND

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-05
CONTRACT IR-33742	SHEETS 159 of 173
	PROJECT 1006075



DATE: 10/1/2012  
TIME: 10:45:30 AM  
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\200RD UD01\_S9.dgn



UNDERDRAIN TABLE

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit'	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No. _____	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. _____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. _____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No. _____	Outlet Protector Type _____	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT										SYS											CYS	TONS	%	(Y/N)	
	Line PR-A: Mainline Southbound Outside Shoulder																										
1462+50							667.60	N																			
1464+50		200	137.0	18.0		P.G.	662.24	Y			2	29.00	1464+50.00	661.00	34A	638.74			2.61		34A	1	X				
1467+68							655.47	N																			
1470+00		232	158.9	20.9		P.G.	649.25	Y			2	29.00	1470+00.00	648.00	35	617.90			2.61		35	1	X				
1470+00							649.25	N																			
1473+00		300	205.5	27.0		-0.45%	647.90	Y			2	29.00	1473+00.00	647.00	36	640.54			2.61		36	1	X				
1473+00							647.90	Y			2	29.00	1473+00.00	647.00	36	640.54			2.61		36	1	X				
1476+00		300	205.5	27.0		0.77%	650.22	N																			
1476+00							650.22	Y			2	29.00	1476+00.00	649.00	37	642.46			2.61		37	1	X				
1479+00		300	205.5	27.0		P.G.	656.98	N																			
1479+00							656.98	Y			2	29.00	1479+00.00	655.00	38	644.38			2.61		38	1	X				
1482+00		300	205.5	27.0		P.G.	666.64	N																			
1482+00							666.64	Y			2	29.00	1482+00.00	665.00	39	644.26			2.61		39	1	X				
1485+00		300	205.5	27.0		P.G.	676.22	N																			
1485+00							676.22	Y			2	29.00	1485+00.00	675.00	40	641.79			2.61		40	1	X				
1488+00		300	205.5	27.0		P.G.	684.11	N																			
1488+00							684.11	N			2	29.00		683.00	41	642.43			2.61		41	1	X				
1489+50		150	102.8	13.5		P.G.	682.74	Y					1489+50.00	2.00													
1489+50							682.74	Y			2	27.00	1489+50.00	685.00	42	645.67			2.43		42	1	X				
1493+35		385	263.7	34.7		P.G.	699.22	N																			
1495+00							695.84	Y			2	34.00	1495+00.00	694.00	43	668.96			3.06		43	1	X				
1497+00		200	137.0	18.0		P.G.	702.32	N																			
1497+00							702.32	Y			2	48.00	1497+00.00	701.00	44	676.16			4.32		44	1	X				
1500+50		350	239.8	31.5		P.G.	705.47	N																			
1500+50							705.47	Y			2	50.00	1500+50.00	704.00	45	694.04			4.50		45	1	X				
1503+00		250	171.3	22.5		P.G.	710.02	N																			
1503+00							710.02	Y			2	48.00	1503+00.00	709.00	46	705.29			4.32		46	1	X				
1506+00		300	205.5	27.0		P.G.	712.27	N																			
1506+00							712.27	Y			2	42.00	1506+00.00	709.09	47	707.09			3.78		47	1	X				
1508+00		200	137.0	18.0		0.22%	712.70	N																			
1508+00							712.70	Y			2	58.00	1508+00.00	702.50	48	700.50			5.22		48	1	X				Sta. 1508+00 in Rock Cut
1512+00		400	274.0	36.0		0.22%	713.58	N																			
1512+00							713.58	Y			2	67.00	1512+00.00	692.41	49	690.41			6.03		49	1	X				
1514+00		200	137.0	18.0		0.23%	714.05	N																			
1514+00							714.05	Y			2	88.00	1514+00.00	692.01	50	690.01			7.92		50	1	X				
1518+00		400	274.0	36.0		P.G.	718.76	N																			



RECOMMENDED FOR APPROVAL	<i>M. D. Orton</i>	9/6/10
DESIGNED: MDO	DRAWN: BDM	DATE
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE I-69 - SOUTHBOUND

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-06
CONTRACT IR-33742	SHEETS 160 of 173
	PROJECT 1006075

DATE: 10/1/2012  
TIME: 10:45:41 AM  
LOCATION: R:\03141 - I-69 Spt Ion 4\Microstation\Sheet Files\2162750BRI UD01\_S9.dgn

UNDERDRAIN TABLE


UNDERDRAIN TABLE																											
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector <sup>2</sup>	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT										SYS											CYS	TONS	%	(Y/N)	
Line PR-A: Mainline Southbound Outside Shoulder																											
1518+00							718.76	Y					1518+00.00	718.76				921b	718.26								
1522+00		400	274.0	36.0		P.G.	727.91	N																			
1522+00							727.91	Y			2	31.00	1522+00.00	725.96	51	723.96			2.79		51	1	X				
1526+00		400	274.0	36.0		P.G.	736.39	N																			
1526+00							736.39	Y					1526+00.00	735.56				922a	735.06								
1529+00		300	205.5	27.0		P.G.	742.75	N																			
1529+00							742.75	Y			2	32.00	1529+00.00	740.80	52	738.80			2.88		52	1	X				Sta. 1529+00 in Rock Cut
1533+00		400	274.0	36.0		P.G.	751.23	N																			
1533+00							751.23	Y			2	32.00	1533+00.00	749.28	53	747.28			2.88		53	1	X				Sta. 1533+00 in Rock Cut
1536+00		300	205.5	27.0		P.G.	757.59	N																			
1536+00							757.59	Y			2	91.00	1536+00.00	751.23	54	749.23			8.19		54	1	X				
1539+00		300	205.5	27.0		P.G.	763.80	N																			
1539+00							763.80	Y			2	71.00	1539+00.00	757.40	55	755.40			6.39		55	1	X				
1542+00		300	205.5	27.0		P.G.	767.97	N																			
1542+00							767.97	Y			2	62.00	1542+00.00	763.20	56	761.20			5.58		56	1	X				
1546+00		400	274.0	36.0		P.G.	769.55	N																			
1546+00							769.55	N																			
1550+00		400	274.0	36.0		P.G.	769.46	Y			2	44.00	1550+00.00	768.00	57	766.00			3.96		57	1	X				
1550+00							769.46	Y			2	30.00	1550+00.00	768.25	57	766.25			2.70		57	1	X				Sta. 1550+00 in Rock Cut
1554+00		400	274.0	36.0		P.G.	769.92	N																			
1554+00							769.92	Y			2	30	1554+00.00	769.00	58	768.00			2.70		58	1	X				Sta. 1554+00 in Rock Cut
1554+80		80.00	54.8			0.20%	770.08	Y																			
Sub Total	-	8747	5,991.7	780.0	-						54	1,146.00							103.14	-		27.00					



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN TABLE I-69 - SOUTHBOUND	

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-07
CONTRACT IR-33742	SHEETS 161 of 173 PROJECT 1006075

RECOMMENDED FOR APPROVAL		9/4/2012
DESIGN ENGINEER		DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

<p style="text-align: center;"><b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>
<p style="text-align: center;"><i>UNDERDRAIN TABLE</i> <i>RAMP - "NER-3"</i></p>

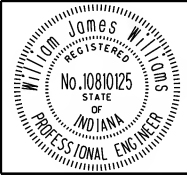
HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-08	162 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



UNDERDRAIN TABLE

UNDERDRAIN PIPE													OUTLET PIPE								OUTLET PROTECTORS						Remarks
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe LFT	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill CYS	HMA for Underdrains TONS	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT																					SYS	CYS	TONS	%	
Line "NER-3" Outside Left																											
500+10		375	251.3	16.2			718.90	Y			2	22	1598+75 "NWR-3"	718.75			996	716.3									
503+85							727.64	N																			
503+85		565	378.6	24.5			727.64	Y			2	19	1595+00 "NWR-3"	727.50			997	727									
509+50							740.08	Y			2	18	509+50	740.03		739.19				9	2	X					
509+50		250	167.5	10.8			740.08	Y			2	18	509+50	740.03		739.19				9	2	X					
512+00							745.46	Y			2	18	512+00	745.25		742.76				10	2	X					
512+00		191	128.0	8.3			745.46	Y			2	18	512+00	745.25		742.76				10	2	X					
513+91							750.68	N																			
515+29		169	113.3	7.4			754.00	Y			2	52	515+29	753.50		751.5				11	2					X	
516+98							756.39	N																			
516+98		352	235.9	15.3			756.39	N																			
520+50							754.83	Y			2	22	520+50	754.00		749.01				12	2	X					
520+50		400	268.0	17.3			754.83	N																			
524+50							752.83	Y			2	22	524+50	752.20		746.91				13	2	X					
524+50		263	175.9	11.4			752.83	N																			
527+13							751.65	Y			2	20	527+13	751.40		745.43				14	2	X					
527+13		380	254.3	16.4			751.65	Y			2	20	527+13	751.40		745.43				14	2	X					
530+92							756.97	N																			

DATE: 10/3/2012  
TIME: 10:37:14 AM  
CHECKED: [Signature]



RECOMMENDED FOR APPROVAL		9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE RAMP - "NER-3"

HORIZONTAL SCALE N/A	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-09
CONTRACT IR-33742	SHEETS 163 of 173

UNDERDRAIN TABLE

Underdrain Pipe Limits	UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS						Remarks
	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT																									
Line "NWR-3" Outside Right																											
1548+31		44	39.7	3.9		0.24%	767.41	N																			
1548+75												767.30	Y			2	20	1548+75	767.00		764.58				15	2	
1548+75		400	356.8	34.4		0.47%	767.30	N																			
1552+75												765.43	Y			2	15	1552+75	765.00		762.16				16	2	
1552+75		375	251.3	16.2		0.20%	765.43	N																			
1556+50												764.68	Y			2	15	1556+50	764.50		759.88				17	2	
1556+50		425	379.1	36.6		1.52%	764.68	N																			
1560+75												758.05	Y			2	18	1560+75	757.80		730.29				18	2	
1560+75		75	66.9	6.5		0.44%	758.05	Y			2	17	1560+75	758.00		730.29					19	2					X
1561+50												758.54	N														
1561+50		400	356.8	34.4			758.54	N																			
1565+50												751.34	Y			2	21	1565+50	751.00		740.94				20	2	
1565+50		325	217.8	14.1		0.82%	752.52	Y			2	21	1565+50	751.00		740.94					20	2					X
1568+75												748.5	Y			2	17	1568+75	748.45		747.45				21	2	
1568+75		375	334.5	32.3		0.79%	748.5	Y			2	17	1568+75	748.45		747.45					21	2					X
1572+50												751.46	Y			2	21	1572+50	751.33		739.86				22	2	
1572+50		400	356.8	34.4			751.46	Y			2	21	1572+50	751.33		739.86					22	2					X
1576+50												756.91	N														
1576+50		125	111.5	10.8			756.91	Y			2	17	1576+50	756.80		722.48					23	2					X
1577+75												757.58	N														
1577+75		325	289.9	28.0		1.45%	757.58	N																			
1581+00												752.87	Y			2	15	1581+00	752.60		748.71				24	2	
1581+00		181	121.3	7.9			752.87	N																			
1582+81												750.05	Y			2	50	1525+85 "SER-3"	746.00		738.55				25	2	
1584+31		369	247.3	16.0			747.91	N																			
1588+00												742.36	Y			2	23	1588+00	741.50		739.48				26	2	
1588+00		400	268.0	17.3			742.36	N																			
1592+00												736.05	Y			2	23	1592+00	734.80		732.80				27	2	
1592+00		400	356.8	34.4		2.87%	736.05	N																			
1596+00												724.57	Y			2	23	1596+00	724.40		715.00				28	2	
1596+00		285	254.3	24.6			724.57	N																			
1598+85												716.59	Y			2	24	1598+85	716.40		704.50				29	2	
SUBTOTAL		4904	4009	352							36	378															

DATE: 10/3/2012  
TIME: 10:37:23 AM  
LOCATION: N. HWY 164, Jct. I-65, INDIANA




RECOMMENDED FOR APPROVAL		9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE RAMP - "NWR-3"

HORIZONTAL SCALE N/A	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-10
CONTRACT IR-33742	SHEETS 164 of 173 PROJECT 1006075



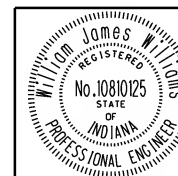
RECOMMENDED FOR APPROVAL		9/4/2012
	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

<p style="text-align: center;"><b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>
<p style="text-align: center;"><i>UNDERDRAIN TABLE</i> <i>RAMP - "NWR-3"</i></p>

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-II	165 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



### UNDERDRAIN TABLE

[illegible]RECOMMENDED  
FOR APPROVAL

*William J. Williams* 9/4/2017  
DESIGN ENGINEER DATE

DESIGNED: JH

DRAWN: FTD

CHECKED: RT


CHECKED: W.

INDIANA  
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE  
RAMP - "SEL-3"

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-12	166 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

### UNDERDRAIN TABLE

RECOMMENDED FOR APPROVAL	 _____ DESIGN ENGINEER		9/4/2012 _____ DATE
DESIGNED: _____ JB	DRAWN: _____ ETD		
CHECKED: _____ RT	CHECKED: _____ WJW		

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-13	167 of 173
CONTRACT	PROJECT	
IR-33742	1006075	





[illegible]

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-14	168 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



[illegible]

	RECOMMENDED FOR APPROVAL  9/4/2012 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  UNDERDRAIN TABLE RAMP - "SER-3"	HORIZONTAL SCALE	BRIDGE FILE	
				N/A	
				VERTICAL SCALE	DESIGNATION
				N/A	1006075
DESIGNED: JB CHECKED: RT	DRAWN: ETD CHECKED: WJW		SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE 169 of 173 SHEETS PROJECT 1006075	

DATE: 10/1/2012  
TIME: 10:45:49 AM  
LOCATION: INDIANAPOLIS

THIS SHEET IS A PART OF THE PROJECT RECORDS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.

7

GUARDRAIL SUMMARY TABLE

GUARDRAIL SUMMARY TABLE																														
LOCATION				W-BEAM GUARDRAIL LENGTH									GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE TGB	CONCRETE BRIDGE RAIL TRANSITION TYPE TFT	REINFORCING STEEL	EPOXY COATED TEMP. GR TRANSITION TYPE TGB	GUARDRAIL END TREATMENT MS	GUARDRAIL END TREATMENT OS	CURVED TERMINAL END	CONCRETE BARRIER 33 IN., MODIFIED	CONCRETE BARRIER 33 IN.	TEMP. GR END TREATMENT OS		RAILING, CONCRETE, C	CONCRETE BRIDGE RAILING TRANSITION, TBT	CONCRETE BARRIER 45 IN., MODIFIED	IMPACT ATTENUATOR, R1, W1, TL-3	IMPACT ATTENUATOR, R2, W1, TL-3	REMARKS
FROM STATION	TO STATION	LEFT MEDIAN LEFT	RIGHT MEDIAN RIGHT	STANDARD POST AT 6' 3" SPA.	STANDARD POST AT 3' 1.5" SPA.	STANDARD POST AT 1' 6.75" SPA.	DOUBLE FACED AT 6' 3" SPA.		TEMP. STD. POST AT 6' 3" SPA.		SHOP CURVED AT ____ m SPA.	NESTED GUARDRAIL																		
Line "A"/"PR-A"																														
1461+58.83	1464+33.83		X				250						30	1				1												
1461+62.90	1464+19.15			X	231.25									1					1											
1467+98.12	1470+73.12	X					250						30	1				1												
1468+12.85	1470+69.10		X		231.25									1					1											
1473+43.45	1493+62.20			X	1,993.75									1					1											
1490+60.85	1493+35.85		X				250						30	1				1												
1493+85.66	1496+41.91	X			231.25									1					1											
1494+12.00	1496+87.00		X				250						30	1				1												
1498+50.00	1499+25.00			X	75.00														1	1										To protect Sign
1515+53.32	1522+22.07		X		643.75									1				1			1									
1522+22.07	1522+82.45			X											2	1724								21						
1522+82.45	1525+48.86		X		225.00									2																
1525+48.86	1526+07.47		X												1	862								39						
1515+37.50	1522+75.00		X				737.5											1		1										
1522+94.34	1525+90.56		X																											
1526+26.56	1544+80.00		X																											
1544+80.00	1553+25.00		X																											
1526+34.92	1526+98.91	X																			64.0									
1526+98.91	1530+60.00		X																		361.1									
1530+60.00	1530+80.00		X																		20.0									
1530+80.00	1534+33.63	X																				353.6						1		
Line "NWR-3"																														
1561+36.07	1574+06.44	X			1,193.75									1					1											Measured Along Curve
1572+81.16	1574+27.77		X		100									1					1											
1576+13.56	1581+99.81		X		581.25									1					1											
1561+36.07	1574+06.44	X							1,218.75								1					1								Temporary for MOT
1578+83.85	1582+81.32		X						67.50								1					1								Temporary for MOT
Line "SER-3"																														
1516+00.00	1520+00.00	X			400.00													1												
Line "SEL-3"																														
523+09.43	524+34.43		X		50.00									1					1											
526+41.74	527+66.74		X		50.00									1					1											
540+46.79	541+90.92		X		68.75									1					1											
542+49.05	545+33.77		X		212.50									1					1											
522+93.91	524+18.91	X			50.00									1					1											
526+26.22	527+51.22	X			50.00									1					1											
541+90.92	542+49.05	X																						58						
529+66.76	533+48.35	X																						421			1			
545+33.77	545+98.08	X																						64						
Line "Bolin Lane"																														
18+01.50	20+64.00		X		262.5														2											
19+30.00	21+92.50	X			262.5														2											
TOTALS					6,912.50		1,737.5		1,286.25					20	3	2586	2	7	18	2	445.1	353.6	2		603		2994.7	2	1	



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DATE	9/6/10
DESIGNED:	BMG	DRAWN:	BMG
CHECKED:	KCH	CHECKED:	MDO

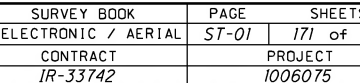
INDIANA DEPARTMENT OF TRANSPORTATION
GUARDRAIL TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GT-01
CONTRACT IR-33742	SHEETS 170 of 173
	PROJECT 1006075



STRUCTURE DATA																																								
STRUCTURE NUMBER	LOCATION					SIZE  INCHES	DESCRIPTION		LENGTH  LFT	SKEW	FLOW LINE				SERVICE LIFE  YRS.	SITE DESIGNATION	PH	STRUCTURE BACKFILL		BACKFILL METHOD	# 8 COARSE AGGREGATE  CYS	TYPE	GEOTEXTILES  SYS	REVIEWMENT RIPRAP  TON	CLASS I RIPRAP  TON	CLASS II RIPRAP  TON	CONCRETE CLASS A FOR STR.  CYS	CONCRETE PIPE ANCHOR  EA.	VIDEO INSPECTION  LFT	GRATED BOX END SECTION		PIPE END SECTION					CONNECT TO STR.	REMARKS		
	STATION	LEFT	RIGHT	MEDIAN CROSS	OFFSET  FT		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE			ELEV.	DOWN STREAM	UP STREAM	COVER				TYPE	CYS											EA.	LFT	TYPE	EA.	15"	18"	24"			30"	36"
LINE "A"																																								
909	1464+00		X			18	2	Inlet N-12	78.0		1.5	662.97	662.27	75	NA	6.0	1	36.4	1				40	6						78.0										
910	1470+00		X			18	2	Inlet N-12	78.0		1.5	648.43	647.75	75	NA	6.0	1	36.4	1				40	30						78.0										
911	1473+00			X		18	2	Inlet N-12	78.0		1.3	646.41	645.75	75	NA	6.0	1	36.4	1				40	6						78.0										
912	1476+00			X		18	2	Inlet N-12	86.0		1.7	648.73	645.00	75	NA	6.0	1	87	1				56	7						86.0										
913	1482+00			X		18	2	Inlet N-12	78.0		1.3	665.15	664.50	75	NA	6.0	1	36.4	1				40	29						78.0										
134	1483+90				X	336x120	1	Precast 3-Sided Arch	550.0	45		638.48	637.33	75	A	5.0			1	4320			2320		3760	190										#8 Aggregate For Special Backf				
914	1488+00			X		18	2	Inlet N-12	80.0		1.4	683.29	682.50	75	NA	6.0	1	36.4	1				40	21						80.0										
LINE "PR-A"																																								
916	1495+00			X		18	2	Inlet N-12	84.0		2	699.42	696.25	75	NA	6.0	1	64	1				60.7	36						84.0										
917	1495+25				X	36	1	RCP	310.0	0	21	682.50	670.77	75	A	5.0	1	453	1				233		50										2	Sumped 6"				
975	1500+15				X	48	1	RCP	450.0	44	16	694.07	674.22	75	A	5.0			1	520			467		112		2									Sumped 6"				
918	1500+50			X		18	2	Inlet N-12	94.0		3	707.83	703.00	75	NA	6.0	1	42	1				21	16						94.0						#8 Aggregate For Special Backf				
919	1506+00			X		18	2	Inlet N-12	94.0		1.5	712.89	709.92	75	NA	6.0	1	39	1				6	5						94.0										
976	1509+65				X	72	1	RCP	306.0	14	15	702.11	689.85	75	A	5.0			1	720			50		56			2								Sumped 6"				
920	1512+00			X		18	2	Inlet N-12	102.0		4	714.21	707.50	75	NA	6.0	1	58	1	</																				

TIME: 10:46:00 AM  
LOCATION: NEWCASTLE - 169, 3000, 4000, 5000, 6000, 7000, 8000, 9000





[illegible]

DESIGNED: <u>MDO</u>	DRAWN: <u>KCH</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

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*STRUCTURE DATA TABLE*

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	ST-02	172 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

DATE: 10/17/2012  
TIME: 10:46:19 AM  
LOCATION: R:\03141 - I-69 Spc tion 4\Microstation\Sheet Files\2562750BRD\_P101\_AE.dgn

CORRUGATED STEEL PIPE / PIPE-ARCH

		STRUCTURE NUMBER																					
		909	910	911	912	913	914	916	917	975	918	919	976	920	977	921a	989	990	991	992	993	994	923
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	1	1	2	2	1	2	1	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE		18	18	18	18	18	18	18	36	48	18	18	72	18	48	18	15	15	15	15	15	15	15
CORRUGATED PIPE SIZE																							
RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	IV	III	II	II	III	II	II	II	II	II	II	II	II	II	II
	D <sub>0.95</sub> RATING	1000	1000	1000	1000	1000	1000	1000	1500	1250	1000	1000	1350	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
CORRUGATED PE PIPE, TYPE S (S)*		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
RIBBED PE PIPE (S)*		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26			OK/26	OK/26		OK/26		OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26
PROFILE WALL PVC PIPE (S)		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
SMOOTH WALL PVC PIPE (S)*		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
FULLY BIT. PAVED & LINED (S)	CORR. PROFILE																						
	THICKNESS																						
ZINC COATED (C)	CORR. PROFILE																						
	THICKNESS																						
ZINC COATED W/ BPI (C)	CORR. PROFILE																						
	THICKNESS																						
ALUM. COATED TYPE 2 (C)	CORR. PROFILE																						
	THICKNESS																						
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE																						
	THICKNESS																						
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																						
	THICKNESS																						
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE																						
	THICKNESS																						
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE																						
	THICKNESS																						
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE																						
	THICKNESS																						
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE																						
	THICKNESS																						
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE																						
	THICKNESS																						
STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE																						
	THICKNESS																						
STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE																						
	THICKNESS																						
STR. PLATE STEEL PIPE (C)	CORR. PROFILE																						
	THICKNESS **																						
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE																						
	THICKNESS **																						

CORRUGATED STEEL PIPE / PIPE-ARCH

		STRUCTURE NUMBER																
		995	924 to 931	980	981	985	987	988	996	997	982	983	984	986	915	935	948	950
PIPE TYPE / SHAPE		2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1
SMOOTH PIPE SIZE		15	15	42	54	72	72	24	18	18	34x53	30	54	54	36	24	24	12
CORRUGATED PIPE SIZE																		
RCP/RCHEP (S)	CLASS	II	II	II	IV	IV	V	II	II	II	HE-A	II	III	IV	IV	II	II	IV
	D <sub>0.95</sub> RATING	1000	1000	1000	1750	1500	2250	1000	1000	1000	600	1250	1250	1500	2000	1000	1000	1500
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK						OK	OK								
CORRUGATED PE PIPE, TYPE S (S)*		OK	OK						OK	OK								
RIBBED PE PIPE (S)*		OK	OK						OK	OK								
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK/26	OK/26						OK/26	OK/26								
PROFILE WALL PVC PIPE (S)		OK	OK						OK	OK								
SMOOTH WALL PVC PIPE (S)*		OK	OK						OK	OK								
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK						OK	OK								
FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																	
ZINC COATED (C)	CORR. PROFILE THICKNESS																	
ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS																	
ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS																	
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS																	
FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																	
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																	
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																	
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																	
STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS																	
STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE THICKNESS																	
STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																	
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																	

LEGEND

RCP- REINFORCED CONCRETE PIPE  
RCHEP- REINFORCED CONCRETE  
HORIZONTAL ELLIPTICAL PIPE  
PE- POLYETHYLENE  
DR- DIMENSION RATIO  
PVC- POLYVINYL CHLORIDE  
BIT- BITUMINOUS  
CORR- CORRUGATION  
BPI- BITUMINOUS PAVED INVERT  
ALUM- ALUMINUM  
STR- STRUCTURAL  
CFP- CONCRETE FIELD PAVING  
CIR- CIRCULAR PIPE  
DEF- DEFORMED PIPE  
(S)- SMOOTH PIPE MATERIAL  
(C)- CORRUGATED PIPE MATERIAL  
(LS)- ACCEPTABLE FOR USE  
\*- LOCK SEAM PIPE REQUIRED  
REFER TO STANDARD DRAWING 715-  
PHCL-18 OR 19 FOR NOMINAL  
DIAMETER APPROPRIATE FOR PAY  
ITEM DIAMETER  
\*\*- TABULATED THICKNESS REFERS TO  
TOP & SIDE PLATES. BOTTOM  
PLATES SHALL BE OF NEXT  
GREATER AVAILABLE THICKNESS.



RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
DATE 9/6/10

DESIGNED: MDO DRAWN: BDM  
CHECKED: HCF CHECKED: MDO

INDIANA  
DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE SHEETS
ELECTRONIC / AERIAL	PT-01 173 of 173
CONTRACT	PROJECT
IR-33742	1006075